Supplier Name	\$611.48 Acier Ouellette	\$143.24 Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	\$132.59 Acier Ouellette Inc.	899.70 Acier Ouellette Inc.
Total	\$611.48	\$143.24	\$174.69	\$82.00 Acier Ouell Inc.	\$497.20	\$132.59	0.705
Past Due			1				
Aging Days	7	2	^	2	_	2	2
Price/Unit	\$ 4.65 / ft	\$71.62/#	\$ 29.12/ft	\$ 20.50 / ft	\$ 15.54 / sf	\$4.14 / sf	\$ 4.99 / R
Recaive Date	7/31/2018 \$ 4.65 / ft	7/31/2018	7/31/2018 \$ 29.12 / ft	7/31/2018	7/31/2018	7/31/2018	7/31/2018
Status	Stock	Stock	Stock	Stock	Stock	Stock	Stock
Container No	S098038	S098040	S098041	\$098042	8098678	S099478	S098043
Received Accounting Container Quantity Job No No							
Received Quantity	132	2	9	4	32	32	50
Due Date	7/31/2018						
Order	120 7	2	9	4	32		50
Equipment Order ID Qty					ı		
Project							
Part 9							
Description	A513 Seamless Alloy Steel Round Tubing 0.75"dia. x 0.085" Wall	M1018R4.000; MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108 receive ft	M1018R2.750; MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108	303 Round Bar 2.5"*: MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive (f	304/316 0.125 Sheet: MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	5052-H32 040 Sheet: MATERIAL: 5052-H32 ALUMINUM SHEET AS PER QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS-4016 OR ASTM B209 receive sf	6061-T6 Round Bar 1,250 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER CQ-A-225/8 OR AMS-QA-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive fi
Purchased Item		M1018R4.000	M1018R2.750 N	M303R2.500	M304S11GA	MS052H32S.040 S	M6061T6R1.250 66
Terms	Net 30				-	-	2
No	-						
No	2	ω	6	01	Ξ	12	23
Supplier Item No	P0040517 ACI001-VC						
PO No	P0040517						

8/7/2018

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Supplier Name	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Inc.	Acier Ouellette Inc.
Total	\$68.64	\$166.06	\$25.76	\$82.96	\$125.79
Past Due					
Aging Days	2	1-	7	h	F-
Receive Date Price/Unit	\$3.12/ft	\$8.30/ft	61.29 / #	4.15/1	\$ 6.29 / #
Receive Date	7/31/2018	7/31/20 -8	7/31/2018	7/31/2018	7/31/2018
Status	Stock	Stock	Stock	Stock	Stock
Container	\$098044	\$2088045	\$008046	8098047	8098048
Received Accounting Container Status Quantity Job No No					
Received / Quantity	22	20	50	30	20
Due Date					
Orty	24	20			
Equipment Order ID Qty					
Project E					
Part Pr					
Description	1144 Steel Proof Round Bar 0.750": MATERIAL: AISI 1144 STRESSPROOF STEEL ROUND BAR ASTM A311 or UNS G11440	M606113B1.000X02.000 6061-T6 Bar 1.00 X 2.00. MATERIAL: 6061- T6/T651/T6510/T651/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/41/28/4115/4116 OR QQ-A-200/8 OR AMS-4160 OR ASTM B211 receive ft ASTM B221 receive ft	6061T6 Bar .375 X .750 : MATERIAL: 6061- T6/T651/T6510/T651/T62 ALUMINUM BAR PER QQ-4-225/8 OR AMS-QQ- 4-225/8 OR AMS-QQ- 4-117/4128/41/5/41/6 OR QQ-4-200/8 OR AMS-QQ- A-200/8 OR AMS-QQ- OR ASTM B221 OR ASTM B221 receive ft	M6061T6B0.500X02.000 60061-T6 Bar.500 X 2.00:	M606116B0.750X02.000 6061-16 Bar .750 X 2.00: MATERIAL: 6061- T6/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-226/8 OR AMS-QQ- A-226/8 OR AMS-QQ- A-200/8 OR AMS-QQ- A-200/8 OR AMS-QQ- A-200/8 OR AMS-4160
Purchased Item	MT-1144-R0.750	M6061T3B1.000X02.000	M6061T6B0.375X0.750	M6061T6B0.500X02.000	M6061T6B0.750X02.000
Terms					
No No	4	ιο.	9		
er Item	4	5	91	71	18
Supplier Item No					
PO No				1	

Supplier Name	\$216.52 Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	
Total	\$216.52	\$816.67 Acier Ouell Inc.	\$2,793.00 Acier Ouell Inc.	\$4.655.12
Past Due				1
\ging Days	7	7	2	
Price/Unit Days Due	\$ 18.04 / ft	\$ 8.51 / sf	\$ 9.70 / sf	
Receive Date	7/31/2018 \$ 18.04 / ft	Stock 7/31/2018 \$ 8.51 / st	Stock 7/31/2018 \$ 9.70 / sf	
status	Stock	Stock	stock	
Received Accounting Container Status Receive Quantity Job No No No Date	8098049	\$099479	S099480	
Accounting Job No				
Received Quantity	12	96	288	726
Due Date				
Order	- 5	144	96	572
For Project Equipment Order ID Qty				Total:
Project				
For No				
Description	M6061T6B3.000X01.500 6061-T6 Bar 3.00 X 1.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QC- A-225/8 OR AMS-QC- A-226/8 OR AMS-QC- A-200/8 OR AMS-QC-	6061-T6 .040 Sheet: MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	6061-T6 .080 Sheet: MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	
Purchased Item	M6061T6B3.000X01.500	M6061T6S.040	M6061T6S.080	
Terms				
Re No	61	0		
PO No Supplier Item No Terms	-	20	21	
PO No				

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8/7/2018

Plex 8/7/2018 11:09 AM dart. Tollis. Andrew



ACTER OUELLETTE INC. 935, Boul. du Hâvre Salaberry de Valleyfield (Québec) 16S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

CO00100897

DELIVERY - CLIENT

Billed to	Shipped to		Customer N°	CLI0001056	
DART AEROSPACE LTD	DART AEROSPACE LTD		Date	2018/07/18	
1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	, Ontario,		Delivery date Your order N°	2018/07/31 040517	
	Att: CHANTAL LAVOIE Tél.: 613-632-5200	613-632-5200	Processed by Salesman	Eric Kaehlert	
Instruction F-M	Delivery Route 5		Carrier Credit Terme	OUELLETTE VALLEYFIELD Net 30 Days	9
Product Description	Weight	MII	PCS NB	Internal Use Only	nly
			CMD EXP B/O	IN I S C	DUT
1 TUBE MEC 0.750 OD X .083 NS TME-0750083 10058 6 X 20' R/L ** CERTIFICATE **	70.92	120.00 PI_\$PI	18168		
LINE# 2 HEAT: (15C/472) PT HEAT: (8372490) M			37.01.4		
AC18287-MM-2018-07-23			1		
2 PLATE 44W 3/16 RANDOM P44-316-V 4105 SHEAR CUT 1 X 4' X 4' ** CERTIFICATE **	122.40	16.00 PI2_\$CLB	HAR B	3	
HT# A8D110 / B8E587 LINE# 4					
3 ROUND CR 4 1018 (R) RCR-4 5344 SAW CUT 1 X 2' ** CERTIFICATE **	85,44	2.00 PI_\$CLB	(70)	,	
HT#(142769) LINE# 8					

DELIVERY - CLIENT

Product Description	ÓţÀ	Weight	M		PCS NB			Inter	Internal Use Only	Only	
				CMD	EXP	B/0	NI	Н	S		DUT
4 ROUND CR 2 3/4 1018 (R) RCR-234 5310 TRANSEEDT CT. IEDOME 20.07	121.14	00.9	PI_\$CLB	\	>						
SAW CUT		1.00	N		~	_		1			
IX6' ** CERTIFICATE **					9	\					
HT# (139335) Francit 80 60 1						\					
2 1/2 30	92.99	4.00	Id	*							
KSS-212303 11420 1 X 4' ** CERTIFICATE **					-						
HT# (45264) W					+						
LINE# 10											
ac18302-th-2018-07-23				/) (
6 SHEET SS 11G SS304-2B (4 X 8) FESS-11G483042B 3402	168.00	32.00	PI2_\$CLB				Š	,			
PALLET		1.00	NO		Y						
1 X 4' X 8' ** CERTIFICATE **					02	_			_		
HT# 648C) A				/							
LINE# 11)						
(18	18.02	32.00	PI2_\$CLB		1	1	The contract of the contract o		potential of One or simple or	The state of the s	Andrews and Agency
TEAL-U40483052 3124 1 X 4' X 8' PVC 1 SIDE ** CERTIFICATE **					1						
HT# GFB1803W50097) M				1	PX.7	V					
LINE# 12				X	1	\					
AC-18288-RY-2018-07-23					(
8 ROUND ALU 1 1/4 6061-T6 *	28.82	20.00	PI \$CLB	1	+	(
RAL-114 5121 1 X 20' ** CEPTIFICATE **					7	<u> </u>					
A CENTIFICATE TO					2						
HT# SXF162069	-				\						

DELIVERY - CLIENT

CO00100897

Product Description	ě		PCS NB	Internal Use Only
	Arriva (Arriva)	Weight	CMD EXP B/0	IN I S C OUT
LINE# 13				
9 FLAT ALU 1 X 2 6061-T6 *	48.00	20.00 PI \$CLB	<	
FAL-12 2497				
1 X 20' ** CERTIFICATE **			8	
LINE# 15 Heat: SXF17180X				
10 FLAT ALU 378 X 3/4 6061-T6 *	7	a 104 00 00	4	
FAL-3834 2620	0.02			
** CERTIFICA			2	
			3	
LINE# 16 HEAT : (#K147-197))	
11 FLAT ALU 1/2 X 2 6061-T6 *	23.98	20.00 PI \$CLB	E	The state of the s
FAL-122 2481			\	
1 X 20' ** CERTIFICATE **			3	
			8	
HEAT (SXE180043) P)	
12 FLAT ALU 3/4 X 2 6061-T6 *	36.36	20.00 PI_\$CLB		
FAL-342 2592				
1 X 20' ** CERTIFICATE **			1	
/ IA/E# 18			8	
HEAT: (CN17)14144			<u></u>	
13 FLAT ALU 1 1/2 X 3 6061-T6 *	63.50	12.00 PI \$CLB) X	
FAL-1123 2445			6	
1 X 12' ** CERTIFICATE **				
LINE# 19				
HEAT (SXE180264) AT)	1
14 ALU SHEET .040 (18G) 6061-T6 RANDOM FEAL-0406061-V 3131 2 X 4' X 12' PVC 1 SIDE *** CERTIFICATE **	54.05	96.00 PIZ_\$CLB		
		3		
LOT# HEAT (0260494) M		3		
	_			
LINE# 20		4		

DELIVERY - CLIENT

1014 FTE

					7690010000
Product Description	Oty Weight UM	PCS NB		Internal Use Only	nly
		CMD EXP B	B/O IN	I S C	TUO
AC18289-5A-2018-07-26	^	\			
15 ALU SHEET .081 (12G) 6061-T6 RANDOM	328.61 Z88.00 PI2 \$CLB				
FEAL-0816061-V 3205 6 X 4' X 12' PVC 1 SIDF ** CEPTIFICATE **	\	シャラン	_		
יייי די יייי די ייייי די ייייי די יייייי	\ 	6			
1		<u></u>			
HEAR: D311714					
LINE# 21					
AC18289-54-2018-02-26					
16 ROUND STRESSPROOF 3/4 (B)	1	(
RST-34 5815	30.00 Z0.00 PI_\$CLB				
** CERTIFICAT		-6			
		1			
HT# (124677) M		3			
INF# 14					
LIVE# 14					
Conditions:	Total Weight (Lbs): 1 272.62	NIR: R-109516-6			
in sour air unaversite triangles tenden the property of "Acter Dutellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acter Dutellette Inc", is the same as offered and honored by the manufacturer and his warranty is transferred by "Acter Dutellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acter Dutellette Inc." is the called the Precision Septect the following conditions: Net 30 days from billing date and the buyer accepts to peay administration charges of 2% per month (2% per annum) on all past due amounts over 30 days. Any default in	ment is made in full, complete and cashed. All lost materials are at the buyer's exp is warranty is transferred by "Acier Quellette Inc." to the client. The buyer hereby, inistration changes of 2% per month (24% per annum) on all past due amounts on	ense. The warranty offered by accepts to respect the respect the respect the respect and refault in			
respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to	er, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made naged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject	I. All claims must be made uthorization and are subject to			
a 25% restocking charge.					
Prepared By : Delivered By : T	Time	A M			
3		-			
	Customer's Signature	9450			
		Dale			

PO No:

Fine item Note 1 pcs of 40" x 40"

1

005.0-2-0414-TM

PURCHASE ORDER

PO040517

1/1

89.268\$

12/81S4E,08\$ 12 ff

te 0

124/18 11,111 sf

Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON KeA 1K7



ACI001-VC

Supplier:

Tel (613) 632-5200

		\$		01		e: e Order :r	Revision Revision		9t/2	Acier Ouellette Inc 935 Boul. Du Havi O.C JeS 5L1 Canada Phone: 800 667 43 Fax: 450 377 5696		
			1926110		Groun Net 30	:smre]	Via: Pymt Te Freight '			Fo: 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5	didS	
							su	le)[
Extended Price	Unit Price (CAD)	Balance	Received		Due	Account	Status	Description	Supplier Part No	hsq	dot	Line
08.127\$	#/0£.021\$	H 9	H O	# 9	81/42/7	-	Firmed	8 STYPE 8 YO201/0201) STEEL ROUND TUBING		-T-E12A-TM 2S1.0W03T.E		L
	#\29.4\$ \$ 0 9UA	120 ft	45.151	120 ft	81/42/7	_	Pirmed	yollA ssəlmsə2 £f3A gniduT bruoA ləəf2 IlsW "Z80.0 x .sib"37.0		-T-£12 A -TM 280.0W02T.0		W z
00°9£†\$	∄/06.01\$	∄ 0⊅	¥О	# 04	81/18/7		Firmed	Sta Seamless Alloy Steel Round Tubing Steel Round Tubing Steel Round: A 20.058" Wall Star A 20.058" Wall Star A 20.058" Wall Star A 20.058" Wall ALLOY STEEL ROUND		-T-£12A-TM 830.0W03T.0		ε
98.Y11\$	\$2/2299£.7\$	18 81	12 0	te at	81/42/7		Firmed	Hot Rolled Steel Sheet 6 Gauge 0.1943"		A58-2-8ЯН-ТМ		Þ
71.055\$	#/92542.58\$	11 17	# 0	# 4	81/15/7		Firmed	Steel Bar		11 + x # 10 TA 140-B-2.000X4.000		Line Item Note 5
\$124.04	#/10.15\$	U Þ	¥ O	H to	81/42/7		Firmed	4140 Steel Bar 0.500 X 4.000 4.000 : AISI 4140 STEEL BAR 6549, AMS 6382, AMS 6529, MIL-S-5626 MIUIMUM ROCKWELL C 8589, MIL-S-5626		000.4X006.0-B-0414-TM	1	9

- bemnii

3669 SMA ,6S8A MT2A

MAXIMUM ROCKWELL C

WINIWNW BOCKMEFF C SHEET OR PLATE : AISI 4140 / 4142 STEEL

WAXIMUM ROCKWELL C

AISI 4140 Steel Sheet

= 35 Bc

= 28 Rc

= 32 RC

brise			Received	Order	91cu	,2039		lter Description	Supplier	h-0	ani.l
9143.	\$71.62/ft \$ \$71.62/ft	S ∉		Quantity Change	Date 7/20/18	Account	Status bemni A	Description M1918R4.000 - MRTERIAL: AISI 1018- 3.00 ASS OUND BAR ASS OUND SCOF ASS OF	on hed	nsq 000.498101M	ltem ltem
. 4718 8	#\211.65\$ 10S S 0 3UA	. H 9	#0 tJ9	#9	81/24/18	_	Firmed	037.5A8101M -8101 ISIA: JATB=TAM: AND TOOP SOOF MTO TOO TOO MTO TOO TOO 8010		027.2A8101M	14
282.	#\08.0S\$	UÞ	11 h	H 4	81/52/18	-	Firmed	303 Round Bar 2.5" : MATERIAL: AISI 303 SS: ROUND BAR AS PER NOTE:304/316 NOT ACCEPTABLE Teceive ff		M303R2.500	01
Z6 1 \$	talatea.ar&	32 St	150E	32.51	81/24/18	-	Firmed	304/316 0.125 Sheet SS SHEET ANNEALED SS SHEET ANNEALED AS PER MIL-S-5059 OR ANS 5613 (304) OR AMS 5624 (316) OR ASTM ASA0 OR ASME SA240		M304S11GA	H
ZE1\$	12/2754541.48 8fn: S n Al		+57E	32 st	81/24/18	-	Firmed	5080 SH-S508 SA T-S082: JAIR SHR S. S62-438 SA T-SHE SHR SHR SHE SA SHE		0#0:83EH3899M	7
66\$	#\286.4\$	os to de an	1200	zo#	81/52/18		permi <u>T</u>	03.1 rab bund 31.200 -1606 : 1-1606 -1-1606 : 1-1607 -		085.178718008M	14/ E1
7 /\$	\$3.12/ft	P P S P H	+5CC	24 H	81/15/7		Pirmed	1144 Steel Proof Round Bar 0,760" : MATERIAL : AISI 1144 SARESSPROOF STEEL ROUND BAR SAT 40 INS		087.0A-4411-TM	II.
991\$	9/E0E.8\$	я os A	HOC	20 ft	81/42/1	_	Pirmed	2.00 X 2.00 X 2.00 To 36 at 1.00 X 2.00 X 2.00 To 36 at 1.00 X 2.00 To 36 at 1.00 X 2.00 To 36 at 1.00 X 2.00 X 2.00 X 3.00 X 3.		o.S0X000.rBaTraeaM M6061T6B1.000X02.00	15 Note 2 pc

### ### ### ### ### ### ### ### ### ##	Extende			Received		Due	,4110000	3114612	anitainaan	Supplier Part No	Part	dot	Line Item
### ### ### ### ### ### ### ### ### ##	\$25.	#\882.r \$	SO &	H 0					- 1606.1-6061-6061-161617-6517-6517-6517-6517-6517-6517-		ከs ዋ M6067.0X37£.08 3 T†303M	nos!	
### Part	\$32.8\$				20 ft	81/42/18		Firmed	. MATERIAL: 6061- 16/1651/1651/1651/1651/1651/1651/1651/1				M
### 1906 \$ 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	₹.8≤1 \$					81/42/1		Firmed	- r606 - 1-67651/1762 - r606 - 1-67651/17651/17651/17651/17651/17651/1761/1969 - r606 - r606 - r606/1969/1969/1969/1969/1969/1969/1969/1		000,200X027,0891 rabelm		JA RI
### The control of th	e.ars\$				11 21	81/42/18		· bəmi'l	- 1669-1-1687-1687-1687-1687-1687-1687-1687-16		003.10X000.E83T1909M	The state of the s	14 et
## 12885 \$2861-16/162 \$2885 \$2871 \$2885 \$2871 \$2885 \$2871 \$2885 \$2871 \$2885 \$2871 \$2885 \$2871 \$2885 \$2871 \$2871 \$2895 \$2871 \$2895 \$2871 \$2895 \$289			12 ppl		te bot	81/24/18		- bemrii	S4 T-86,T67.68 ALUMINUM SHEET &S ALOMINUM SHEET &S AN ST-8-0,110 AN ST-8-0,100 AN ST-8-0,100 AN ST-8-0,100 AN ST-8-0,100 BN ST-8-0,10		040.23T1909M		07 07
Grand Total: \$9,019.9				14.	1	81/52/18		- bəmii	16-1-16.080 Sheet MATERIAL: 6.061-16/162 MATERIAL: 6.06-16/162 AMD STATEMENT OR MATERIAL: 6.06-16/162 MATERIAL: 6.06-16/162 MATERIAL: 6.06-16/162 MATERIAL: 6.06-16/162 MATERIAL: 6.06-16/162 MATERIAL: 6.06-16/162	/ / 1 / :	080.23T1303N	1	中

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report A016 personnel qualification

A026 certification of material conformance A017 raw material identification (as applicable)

A041 quality management system

A049 supplier awareness

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

www.dartaerospace.com for further explanation. Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit

Plex 7/18/18 12:53 PM dart.lavoie.chantal

PURCHASE ORDER 712040517

Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON KEA 1K7



AC1001-VC

1270 Aberdeen Street

Fax: 450 377 5696

J6S 5L1 Canada

QC Valleyfield

Phone: 800 667 4248

935 Boul, Du Havre

Acier Ouellette Inc.

:oT qid2

Supplier:

Tel (613) 632-5200

	_	-					Sul	941				
Extende Price	JinU (QA2) apir9	annala8	Received	vitresuQ	Due Date	finocoA	sm Status		Supplier Part No	haq	dot	Line
, rs/\$	Price (CAD) \$120.30/ft	11 9	Quantity 0	ll 9	7/24/18	,	bermi-l	ASTREL ROUND TUBING (1020/1026) ALLOY STEEL ROUND TUBING		-T-E13A-TM 3S1.0W037.E		L
*228	¥/99° > \$	120 ft	ЯO	120#	81/24/18	-	Firmed	yollA seamless £f&A gniduT bnuoA lest? IIsW "280.0 x .sib"87.0	Apply approximates	-T-E13A-TM 280.0W027.0		2
C'+6\$	#\26 2 2.3\$	¥ 01×	нo	₩ 0₽	81/24/18	1	Firmed	513 Seamless Alloy Steel Round Tubing Steel Round Tubing The Steel Round Steel Round ALLOY STEEL ROUND MING (DOM)	70 0 177 0 17	-T-£12A-TM 820.0W027.0		8
3.711\$	\$2/5299£.7 \$	te at	te 0	le ôf	81/42/7		- bermi-l	Hot Rolled Steel Sheet 6 Gauge 0.1943"		MT-HRS-S-6GA	1	*
							•			# 4 x # 4 to a	e , bca	ltem Not
.056\$	#/82.5425/ft	ij þ	# O	# to	81/18/7		Firmed -	Steel Bar	-	000.4X000.S-8-0414-TM	•	g
5.55\$	#\dsce.3\$ 12\81\Ste.08\$	n 4	# 0 1e 0	# b	81/42/18		Firmed -	4140 Steel Bar 0.500 X 4.000 4.000 : AISI 4140 STEEL BAR 6349, AMS 6382, AMS 6529, MIL-S-5626 MINIMUM ROCKWELL C = 28 RC MAXIMUM ROCKWELL C = 32 RC AISI 4140 Steel Sheet : AISI 4140 Steel Sheet		000.4X003.0-8-0414-TM		2
								SHEET OR PLATE = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395				

:siV

Ship-To Contact:

Revision Date:

Purchase Order

Revision:

Due Date:

PO Date:

PO No:

Ground

7/24/18

81/11/18

PO040517

Lavoie, ChantalPhone: clavoie@dartaero.com

ebrieza Price		mele G	Received		ets.()	,0000		itaiseed	Supplier	èun (401	anil
\$143.2	Price (CAD) \$71,62/ft.	Balance Balance	Quantity 0 ft	Quantity 11 C	Date 7/20/18	JuneooA-	Status	Description	Part No	Part M1018R4.000	dol -	meti 8
	#/311.62\$			1119	7/24/18		· Firmed	- MATERIAL: AISI 1018- 3025 ROUND BAR MT010S20GA AS PER MIL-S-7097 OR ASTM 1008 Inceeive ff 7007 AISI 1018		037.2R8101M		6
	;		1					- 8101 1018- BAB GNUOB 5301 FAB 43010200101M MTSA AO 7607-8-1108				
),58\$:#\02.02\$	· U t	·#0	i u b	81/24/18	-	Firmed .	303 Round Bar 2.5" : MATERIAL: AISI 303 SS : MOTERIAL: AISI 303 SS ROUND BAR AS AT AND TOTE: 304/316 NOT TOTE: 304/316 NOT TOTE: 304/316 NOT TOTE: 304/316 NOT	'. - - -	M303R2,500		10
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3.25r \$	1e/3754541,4\$	32 SE	Je 0	:]s	81/24/18		Firmed	50-52-H32. 040. Sheet 50-52-H32. 50-52-H32. SA T39-H32. 50-52-H32. 60-62-F3-60-80-62. 60-62-F3-F3-F3-F3-F3-F3-F3-F3-F3-F3-F3-F3-F3-		M5052H328.040		21
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8.47\$.#\Zf.E\$	S¢ ff	ñО	. P4 F	81/15/7		· bəmi∃	44 Steel Proof Round Bar 0.750" : MATERIAL : AISI 1144 SARCSOPCOF STEEL ROUND BAR SMA MATT OF UNS		027.0A-4411-TM		ÞΙ
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96.58\$ m84r.h2 n 02 n 0 n 0 n 0 strpsty - bemild 00.5 x 003. x 80 arrivating 1 m84r.h2 m85r.h2 m84r.h2 m 0 m 0 m 0 m 0 m 0 m 0 m 0 m 0 m 0 m	\$1,525.00	38/2069444/8	ि १५ १५।	te 0	is par	\$\/ \ \\\\\		- bəmii	: MATERIAL: 6061-T6/T62 BALUMINUM SHEET AS PER QQ-A-250/11 OR PMS-A-QQ-A-250/11 OR AMS 4025 OR AMS 4027	,, 	040.23T1303W		50
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Plex 7/17/18 2:49 PM dart.lavoie.chanta

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit

Procurement Quality Clauses

Votes to Inghi 200A

A012 chemical and physical test report

A016 personnel qualification

And Taw material identification (as applicable)

A041 quality management system A026 certification of material conformance

A042 dart notification by supplier

A043 retention of quality documents

www.dartaerospace.com for further explanation.

A048 counterfeit parts avoidance, detection, mitigation and disposition program

seanerawe reliqque e40A

Plex 7/17/18 2:49 PM dart.lavoie.chantal

935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 866-456-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242



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00.822			29.4	NN	120.00	Id	150,00	00.0	TUBE MEC. 0.750" OD X .083" VARIE M 6 X 20" R/L 2-3 DAYS
inuomA 08.1ST	Price	Pcs Nb	Price 120.30	Id	Qty 6.00	Id W/N	Qty 6.00	## Te.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Product N° and description TUBE MEC 3.750 OD X .120 (R) TME-3750120 6697 TME-3750120 6697
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		S	Net 30 Day		sui	nedit Ten	0		Att : CHANTAL LAVOIE Tél.: 613-632-5200
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00:855			29. ₽	NΠ	120,00	Id	120,00	00°0	TUBE MEC. 0.750" OD X .083" VARIE M 6 X 20' R/L 2-3 DAYS I
94.38			9£.2	Id	00.0₽	IdO\$ ^T Id	00.0₽	1 9.04	** PRICE VALID FOR TOTAL QUANTITY ** TUBE MEC 0.750 OD X .065 (R) TME-0750065 6777 Z X 20' R/L Z-3 DAYS
98.79			21.9	PIS	16.00	PI2_\$CLB	16.00	122.40	PLATE 44W 3/16 RANDOM 4105
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25.33			50°61	N∩\$¯พเ	JEE.1	PI2_\$CLB	1.33	91.72	PLATE 4140 HEAT TREAT 1/2 NS P4140-12H 8509 1 PC 4" X 4" 10 DAYS
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133.24			29.99	Id	2.00	PI_\$CLB	2.00	44 .28	ВСК-4 2344 ВОПИД СВ 4 1018 (В)
10.00			10.00		1.00	NO	1,00		1 X 5, 2LOCK CCIE T ZYM COLL

935, Boul. du Hâvre

Fax: 450-377-5696 MU: 514-336-4246 EX1: 866-456-4242 Tél.: 450-377-4248 MN: 514-336-4248 Ext.: 800-667-4248 Salabeny de Valleyfield (Québec) J65 5L1

0

1976110NOS



Quotation

Salesman

Date

Processed by

2018/07/10 9501000ID Customer Nº

Revision No

Your Order No Z018/02/12 Prices valid until

ERIC Denis Quenneville

1270, ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

DART AEROSPACE LTD

, Ontario,

Shipped to

Billed to

Page 7 Net 30 Days Credit Terms Att : CHANTAL LAVOIE TÉI.: 613-632-5200 ONETTE 2DA Carrier

X 54, OB Z X 15, Y-10 DVA2	nuomA	boird d	Price Pcs N	W/n /	AD M/U	Óέγ	Weight	Product No and description
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DUND 3/4" DIA RANDOM STRESSPROOF X 21' STOCK X 21' STOC	82.00		00.58	NU 00.	NO	1.00	00.0	COUND 2-1/2" DIA RANDOM SS303
DUND 3/4" DIA RANDOM STRESSPROOF X4.X 8' STOCK X4								SAVO 5-4.4X
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Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 935, Boul, du Hâvre Salaberry de Valleyñeld (Québec) J65 5L1

T97611000S Quotation

	Page	3	
Att : CHANTAL LAVOIE Tél.: 613-632-5200	Credit Terms	Net 30 Days	
	Carrier	ONEFFE SDA	
, Ontano,	Salesman	ERIC	
	Processed by	Denis Quenneville	
Shipped to	Your Order No		
ANT HON FOURTH A LINGUIST MANUAL	Prices valid until	21/20/8102	
1270, ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	Revision Nº	0	
DART AEROSPACE LTD	Date	2018/07/10	
Billed to	Customer N°	CL10001056	

InnomA	Pcs Nb Price	Price	M/U MAD	M/U V49	Weight	Product N° and description
00.0		00.0	NU 00.0	NU 00.0	00.0	HEX BAR 1" RANDOM STRESSPROOF
						N REGRET, NOT AVAILABLE
90'991		08.8	Id 00.02	80.00 PI_\$CLB	2 00.8₽	1 X 50, 210CK EVE-13 S461 N
80,216		60.71	Id 00.8E	86,00 PI_\$CLB	172.80	3 X 15, 210CK EFF-14 S235 EFF1 1 X 4 6061-16 *
17.784		20.32	Iq 00. 1 52	24.00 PI_\$CLB	140.98	FEAT ALU 1 X 5 6061-T6 ** 2 X 12' 570CK
11.95,11		92.01	12,00 PI	12.00 PI_\$CLB	32'58	FLAT ALU 1 1/4 X 2 6061-T6 * FAL-1142
92'\$7		1,29	Id 00.02	20.00 PI_\$CLB	Z Z9°9	FLAT ALU 3/8 X 3/4 6061-T6 *
96'78		51 .₽	Id 00.02	50'00 PI_\$CLB	23.98	FLAT ALU 1/2 X 2 6061-T6 * FAL-122
67.251		6Z ° 9	Z0.00 PI	20.00 PI_\$CLB	96.36	FLAT ALU 3/4 X 2 6061-T6 * FAL-342
716.52		18,04	14 00.21	12.00 PI_\$CLB	05'89	FLAT ALU 1 1/2 X 3 6061-T6 * FAL-1123 2445 1 X 12' 570CK
1 225.00		12.8	214 .00.P12	44.00 PI2_\$CLB	T 40'18	3 X 4' X 12' PVC 1 SIDE 3-4 DAYS FEAL-0406061-V 3131 3 X 4' X 12' PVC 1 SIDE 3-4 DAYS

: 916Q

Mext Page...

935, Boul. du Hâvre

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Salaberry de Valleyfield (Québec) J65 5L1



Approuved and Accepted by:

Important

This offer is subject to credit approval. of the evolution of the current market prices.

This offer is based on the availability, the price of material can change without notice in function

2 279,42

Total Weight (Lbs)

FRAIS_ENERGETIQUE FUEL CHARGE 3'62 3 X &, X IS, DAC I SIDE 3-4 DYAS FEAL-0816061-V 144'00 PI2_\$CLB 164.30 144'00 PI2 MODIAM 3T-180, (12G) 180, T3HR UJA 05.39E I 07.6 6th Product No and description M/N Price M/U (del Weight Amount Price ьсг ир Page Att: CHANTAL LAVOIE Tél.: 613-632-5200 Credit Terms Net 30 Days Carrier ONEFFE 2DA , Ontario, Salesman Processed by Denis Quenneville Shipped to Your Order No Z018/07/17 Prices valid until HAWKESBURY, Ontario, K6A 1K7 Revision No 1270, ABERDEEN ST. 0 Date 2018/07/10 DART AEROSPACE LTD Customer Nº Billed to CL10001056 Quotation 19761100OS

Date:

Total (\$CAD)

Sub-total

11 653,71

10 313.02

69'0+EI · · EI-HAL

quote Subject: Josianne Bourdon' 'Eric Kaehlert'

:oT

:Juas M9 22:1 8105, 201 ylul, , tsbnoM From: Chantal Lavoie

Please advise pricing and delivery on the following mat'l. Good afternoon Eric,

11 04 x llsw "820. x "02\.U gnidus bruon E12A THOST X IIBW "280. X "OZV.O gnidut bruon E12A T+3 X JJAW "ZST. X "OZY. E gnidut bnuo1 &LZA

11 4 X "4 X "002.0 16d 0414 THAX "AX "S alsiq to ted 0414

THES Sheet 6 GAX 4 FT X 4 FT X 1 PCS

THO SPECE 200" X A ET X DET X 1 PCS

1018 round bar 4" X 2 FT

1) 3 x "027.2 15d bnuo1 8101

12 SE x "040. 199Az SEASSOZ

304 sheet 11 ga x 32 st

11 + X "Z. S 18d bano1 505

304 round bar 4" x 12 ft cut in section off

6061t6 round bar 1 250" x 24 ft.

_______11 00 x liew "0.51. x "0.52.1 9gb9 1si1 gnidu1 91sups 311.00a

Ţ

1144 round bar 0.750" x 24 ft.

11 44 hex bar 1" x 12 ft

~11 b2 x "S x "I 16d 311303

BUELTE BALT" X 4" X 36 ft

-11 SI x "S x "027.0 16d 311.003 11-ST x "S x "002.0 16d 311.003 11-51 x "027.0 x "278.0 16d 311303 -11-ST x "S x "OZS.I 16d 311303 11 42 x "2 x "1 16d 311 303

18 821 x "040. 199A2 311 300

Chantal

E clavoie@dartaero.com F 1613 632-1053 1 1 613 632-5200

www.dartaerospace.com

DART AEROSPACE

TAAC

Daniel Paquette

Friday, June 29, 2018 11:24 AM Michelle GagnonDonovan; Chantal Lavoie

REVISED PART NUMBER RE: M101856GA

Ref; REM651V3000125-1 SO 7355

Zent:

From:

Subject:

Use this part number instead since we have a drawing for this. Thanks.

AD3-2-29H-TM

From: Daniel Paquette

Sent: Friday, June 29, 2018 11:08 AM

To: Michelle GagnonDonovan <mgagnondonovan@dartaero.com>; Chantal Lavoie @dartaero.com>

Subject: M101856GA Ref; RBEM651V3000125-1 SO 7355

Michelle please enter into PLEX. Thanks.

Chantal please order 4' X 4' sheet of this. Thanks.

21106

Chantal Lavoie

Subject:

:55

:oT

From: Sent:

Daniel Paquette
Tuesday, July 03, 2018 8:24 AM
Michelle GagnonDonovan; Chantal Lavoie
Francois Kirouac; Jean Francois Cadieux
MT-4140-S-0.500 Ref; 20NR-09 AND 20NR-43

Michelle please enter into PLEX. Thanks.

Chantal please order 4' X 4' sheet of this. Thanks.

DANIEL PAQUETTE

Production Engineering Coordinator

1 800 226-4166 L 1 613 635-2546 DVK1 VEKOSPACE

www.dartaerospace.com



Daniel Paquette From:

Friday, July 06, 2018 2:16 PM Sent:

Francois Kirouac; Jean Francois Cadieux Chantal Lavoie

M1018R4.000 Ref; RBT18526-4

Subject:

T0: ü Please order 12" of this please. Thanks.

DANIEL PAQUETTE

Production Engineering Coordinator

DART AEROSPACE T 1613632-5200 > 236 F 1613632-5246

Chantal Lavoie

From:

Sent:

Wednesday, July 04, 2018 8:08 AM Francois Kirouac

Chantal Lavoie; Michelle GagnonDonovan

Kim Johnston

Subject:

;; ;;

M303R2.500 REF: RBEM622V4008101-7 S/O: 7355

Kim/Michelle please enter into PLEX. Thanks.

Chantal please order 4 ft of M303R2.500 . Thanks.

Subject:

:0T :quəs

From:

Daniel Paquette

Friday, July 06, 2018 11:42 AM

MT-4140-B-2.000X4.000 Ref; RB 92700-10329-041-7 Michelle GagnonDonovan; Chantal Lavoie

Michelle please enter into PLEX. Thanks.

Chantal please order 4 feet of this. Thanks.

DANIEL PAQUETTE

Production Engineering Coordinator

JAPA ARTORDACE

Chantal Lavoie

Subject:

:oT

:tn92

From:

Friday, July 06, 2018 2:25 PM Daniel Paquette

Michelle GagnonDonovan; Chantal Lavoie

MT-A513-T-3.750W0.125 Ref; RBT18526-5

Michelle please enter into PLEX. Thanks.

Chantal please order 4 feet of this. Thanks.

DANIEL PAQUETTE

Production Engineering Coordinator

JA VED

NERRI

Material Test Report

Ends: Deburred

#151566

7953 Washington Woods Dr., Dayton, OH 45459

	
9099900000	4/30/2016
.on ATM	etad

Description: A513T6.714; SRA; DOM; Grade=1020; Category=CARBON WELDED; Round; OD=0.750"; ID=0.584"; (WT=0.083"); Debugred; Length=240" to 288"
PO Number:87-15955
Customer: I Part Number 87-15955-17
 TEST CERTIFICATE ACC TO DIN 50049 73.1 B/EN: 10204: 3.1
Phone: (\$37)573-4675 F8x: (702)926-4128

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				1	. #	1	1	1 %	Copper (Cu)	
					1 1	i	1	1 %	(V) muibana\	
		Spec Type:	Tensile		13			%	Molybdenum (Mo)	
		:nottatneinC	Sample		9	:	1	1 %	Vickel (Ni)	
1.0 teamble 40.0 or six	Om 10 100111 1 1 1 1 1 1							%	(10) muimorita	
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	5,244,000 OPERTIES % E	M 240.000 - 288.000 I NICAL PROPERTIES U.T.5 % E Pei 65,000 10.00	MECHANICAL PROPERTIES 7 1,596.371 5,244.000 7.316.200 MM 240.000 - 286.000 7.5 U.T.5 % E Pel Pel Pel 67,630 76,010 20.00 67,630 76,010 20.00 Spec Type: Width (MM):	MIN	CBuge Width (MM): CBuge Width (MM): CBuge Width (MM): CBuge Width (MM):	Cauge Width (MM): Cauge Width (MM):	OUDDOO	N	MAX MAX Mile Mi	

: PASSED (1/1000 MM)

FLATTENING TEST : 15% OF 1D PASSED : 215% OF 0D 1/3% OF 0D PASSED : 215% OF 0D 1/3% OF 0D PASSED : 15% OF 0D 1/3% OF 0D PASSED : 15% OF 0D 1/3% OF 0D PASSED : 15% OF 1D PASSED : 15% OF

STRAIGHTNESS

Product: TUBE

Remarks:

Melted in: INDIA Product is free of weld repair she has not come in contact with Mercury or any of its components.

We hereby Certify that the material described above conforms to Specification and Purchase Order.

all John

notandol IIIB

Quality Co-ordinator

Any questions, Please email: TestReports grant-lic.com

1. 50866 Jo

Acat: 4372490

A bill and the composition A bill and the	3	GOOD LUCK INDUSTRIES	CK IN	OUSTR	ES		DEPAR	TMEN	T. OUA!	ITV	Doc.Ne.:	GLI-FT-SA-20
NORK TEST CERTIFICATE No. +81-120-4186866		(A UMT OF	PARAD INDU	STRIAL ARE	2			ASSUR	ANCE		Rav. No.	
COL NO. 12616 Purchase Order No. 6471 Purchase Order Ord	TEL NI An ISOTS 1	NDRABAD ,DI 0. +96-120-41 6949,190-14	STT.BULAY 19600, FAX.P	05AHAR UP. 10. +91.120_ 18801 Certin	FYBIA) 119666 an Company	>	VORK 1	FEST C	ERTIFIC	ATE	3	Geopiack
COLL NO. (A372490)01-18M-035 COLL N	Customers.	ALEM STEEL OD X D.SS.	ATEIST. 01.2 NORTH AN	O10 MERICA LLA					Purchase RVM Suppli	Order Ne.: G47-	145-P	
CY, MinX, SX, max, PX, max, 31%, A1%, M1%, Strongth Tonsite Tonsit	Specification HEAT NOAC		7248001-11	15(TE) 1020 BM 035	HA	•		•	Invoice M. Centainer Quantity :.	p.A. Bater: OLfA Ho.: CLPNJ-466; 271 PCS[469 X	MYT-18/013 9430 01,102 x 01	3/31.01.2018
C75 Min75 S74 mmm. P94 mmm. S194 Min, Strongth Tohnette Toh									FEET :	4981	-887	2969
G.				CHEM	ICAL PROPE	NTIES				MECHANI	CAL PROPE	PTISS.
0.45		%5	Mm%	5% max.		*10	Al%	% M	Towalle Strongth (asi) mfe	Yield Strength. (pci) min.	EL % min.	Mandheas (HRB) mi
0.484 0.465 0.004 0.010 0.081 0.063 96452 81984	SPECIFIED	0.46	0,30	0.035	0.035	1	'	'	9	55000	10%	75
i Min 1/2 % of Ob passed. i Min 15 % of 10 passed i 0.0307/3.0* Max. passed i 0.0307/3.0* Max. passed i final Centities:	ACTUAL	0.104	9760	9.00%	0.010	0.081	0,040	0.0843	98452	81984	21%	\$ 80
: When 15 % of 10 passed ? 0.03073.0* Mark, passed Plast Consistent : Final Consistent :	Intl Test		Min 1/3 % of	OD passed.					Surface			
	lating Teat	00	Min 15 % of 6.03073.0" n	fax, passed					Eddy Curren Haiustal Gra Final Condit		X Tubes test y Killed	ed found satisfaciary
		The same of									1	
The state of the s		PREPARE	AB GO							2	1.87	
	(FOR	FOR GOODLUCK INDUSTRIES	INDIASTRIES	13					1	SOUTH THE SECTION ASSESSMENT	and the co	

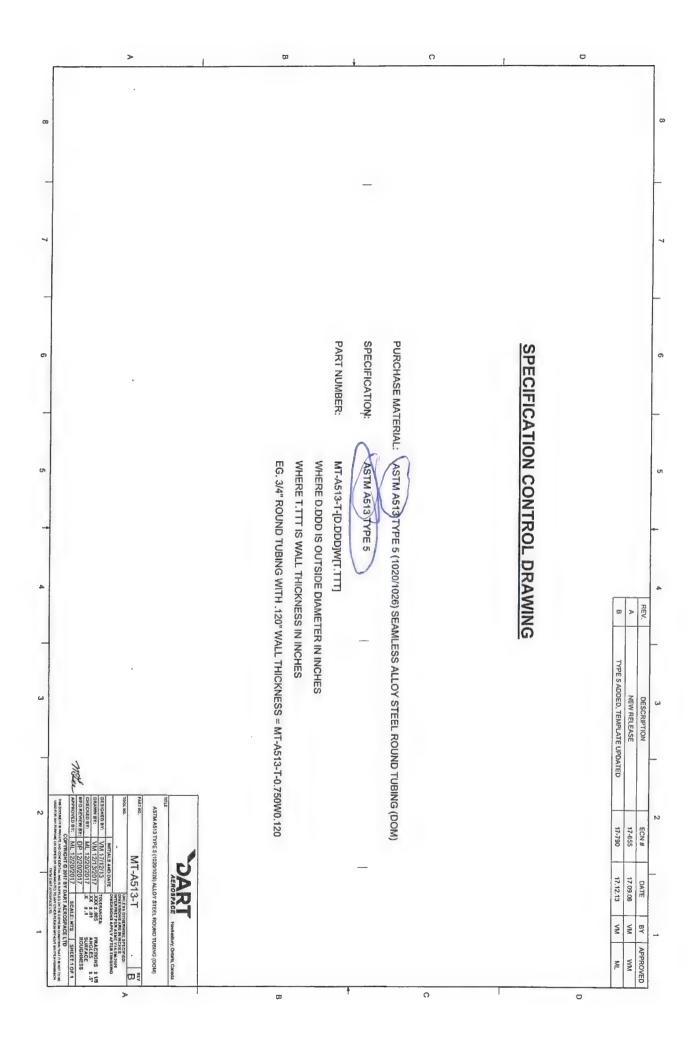
No. 8884 P. 21/26

MATZ:01 8105 .8 .19A .

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Ntsex

±12001



MATERIAL RECEIPT INSPECTION FORM

		SIGNED OFF BY:	PAG			INSPECTED BY:
(if required)	IC ZICNO	ENGINEERII				C 18 INSPECTION
		лэни л Одисе	5 əyş uı pəşeso	OI SJƏ1S	.	
		.330 7.1	7		-	ARDNESS / DUROMETER READIN
					1	IZE OF TEST SAMPLE
					1	YPE OF MATERIAL
MEBSTER	D AUG	A RUG BAH	RC	Н		
			AD RESULT			
	S CHECK	PREFORM A HARDNES	I DNA JAIRE	3TAM	: OF	CUT SAMPLE PIECE
				N	٨	EXTRUSION REPORT
						DOES THIS REQUIRE AN
				N	人	ENGINEERING SIGN OFF
-				NI		DOES THIS MATERIAL REQUIRE
				N	8	ORRECT MATERIAL IDENTFICATION CORRECT M# ON THE MATERIAL
		Obtelst sel	4/251:24	N	A	CORRECT REF # TO LINK CERT
				N	X	PHOTO REQUIRED
				N	(1)	CORRECT THICKNESS
			51 EISH	N	人	CORRECT MATERIAL PER M-DRAWING
				N	X	CORRECT GRAIN DIRECTION
				(N)	X	COKROSION
				N	(7)	CORRECT FINISH
				N	人	SURFACE DAMAGE
					1/1	
	· ·	COMMENTS		1	(CP	DESCRIPTION
					ON_	
	- :a	SHEET SIZE RECEIVI				QUANTITY REJECTED:
	- :QE	SHEET SIZE ORDER				QUANTITY INSPECTED: 131.5
,,05	(O :03	THICKNESS BECEIN				QUANTITY RECEIVED: (31, 5
705	Z-0 :d=	THICKNESS OKDEK			,,	MATERIAL CERT REC'D: KS
					18.	DATE: (1/07/
C 0010 (/ / /	Cohendia	PO / BATCH N	o-omastio.	-1 0	10+	MATERIAL: MI 7 -

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

68-6

: BTAQ

:3TAQ

Fax: 946480128 Tfn:: 946480211 48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN) ARANA Y LUPARDO, 2

www.calibradospradera.es Email: calpradera@calibradospradera.cs



CERTIFICADO DE CALIDAD/QUALITY REPORT

I.E

EN 10504\D1N 20046

De acuerdo a /Made according to:

Nº CERTIFICADO / CERTIFICATE NR.: 51485

Delinery Note Mr. CUSTOMER LES ACIERS TRANSBEC (1997) LTÉE 21485 CLIENTE

Productos Calibrados de acero. Condiciones técnicas de suministro.

Bright steel products. Technical delivery conditions.

: uuoN

VLBARAN

Norma: EN 10277

PRODUCTO SOLICITADO / PRODUCT ACCORDING (STMA 108)

ewent VOI	mirejyi GHW	40	LOTERANCE LOTERANCIA	KCZ	Description	Purchase Order
PERSONAL VIOLE	05,50	816141	940'0 -	996	1018 RED. ESTIRADO 63,50 (2 1/2")	PA1-50039
	05,50	141942	940'0 -	996	1018 RED. ESTIRADO 63,50 (2 1/2")	1±005-NO
	19'44	141844	201,0 -	1.062	1018 RED. TORNEADO 74,61 (2.15/167)	14005-00
	££,03	146141	940'0 -	9011	1018 KED: EZLIKYDO 60,33 (2 3/8")	[\$00°S-00
	54,45	142427	940'0 -	1.042	1018 RED. ESTIRADO 44,45 (1 3/4")	\$7202-MS
	50'00	142532	9/0,0 -	902.2	1018 KED' EZLIKVDO 44'42 (1 3/4")	PAR-50288
	101,60	142534	201,0 -	9911	1018 KED. TORNEADO 101,6 (4")	PAR-50288
	08,02	142589	701'0 -	986	1045 RED. ESTTRADO 50,80 (2")	VI-50322
	34,93	145003	150'0 -	9101	1018 RED. ESTIRADO 34,93 (1 3/8")	VI-50322
	50'00	145602	940'0 -	1.122	1018 RED. ESTIRADO 44,45 (1 3/4")	VI-50322
	05,53	142596	9200-	996	1018 RED. ESTIRADO 63,50 (2 1/2")	VI-50322
-11.	19'\$4	142595	701'0 -	4.242	1018 RED. TORNEADO 74,61 (2 15/16")	VI-50322
	05,50	142716	9/0,0 -	996	1018 RED. ESTIRADO 63,50 (2 1/2")	59E05-WS
	08'05	142713	701'0 -	068	1045 RED. ESTTRADO 50,80 (2")	S9E0S-WS
	05,50	142712	701'0 -	1.222	1045 RED. ESTIRADO 63,50 (2 1/2")	\$9£05-WS
	09'101	69LZ#1	201,0 -	1.162	1018/RED. TORNEADO 101,6 (4")	CV-50427

Compusición quimica de la colada / Chemical Analysis of Heat

!S	S %	d %	N %	₩ uM	п) %	3 %	COLADA Cast Nr.	OB		WED WED
0,240	970'0	510'0	010'0	0,850	0,040	091'0	SH \$6974	141918	00'0	05,50
0,240	970'0	\$100	0100	058'0	0,040	091'0	SH 96977	141942	00'0	05, 53
0,220	720,0	970'0	0100	0,830	090'0	0/1'0	SH 86977	141944	00'0	19.47
0,240	0,026	5100	010'0	0\$8'0	0,040	091'0	47692 HS	141941	00'0	66,03
0,210	0,032	0700	0100	0*8*0	0,000	081'0	SH 66977	142427	00'0	55'00
0770	0,032	070'0	0100	0,840	0500	081'0	SH 66977	142532	00'0	St'tt
0,240	0100	6,013	0000	0770	0/10	0/10	42629 AA	142534	00'0	09'101
0,220	6000	9000	0000	0490	0000	097'0	45462 HS	142589	000	08,02
0,220	570'0	9100	0000	098'0	0000	051'0	42441	145003	00'0	34,93
0170	0,032	0,020	0100	0*8'0	0,050	081'0	SH 66977	145005	000	54,45
0,240	9700	\$100	0100	058'0	0000	091'0	SH 56977	147596	00'0	05'89
0,220	LZ0'0	970'0	0100	0,830	090'0	0/10	SH 86977	142595	00'0	19'04
0,240	970'0	\$100	0100	058'0	0,040	0'100	SH 56977	142716	00'0	05'89
0,220	0,003	9000	0000	049'0	0000	0970	47462 HS	142713	000	08'05
0520	150'0	7100	0000	004'0	0000	0,450	SI 9EL0t	142712	00'0	05,50
0,240	0100	6,013	0000	044'0	0/10	0/10	4762924	(691740)	00'0	09'101

Caracteristicas mecanicas / Mechanical properties

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN) ARANA Y LUPARDO, 2

Fax: 946480128 Tfno.: 946480211

www.calibradospradcra.cs Email: calpradera@calibradospradera.cs



CERTIFICADO DE CALIDAD/QUALITY REPORT

1.5

EN 10504/DIN 20046

De acuerdo a /Made according to:

N. CERTIFICADO / CERTIFICATE NR.: 51485

00'0

202,00

34'60

00'0

CUSTOMER Delivery Note Nr. LES ACIERS TRANSBEC (1997) LTÉE CLIENTE 21482 VEBVBVN

Productos Calibrados de acero. Condiciones técnicas de suministro.

00'56Z

00,0

: шлом Norma: EN 10277

MEDIDY	OŁ	COLADA COLADA	Resistencia Tens. strenght Minm2	Lim.elástico Yield point Vmm/V %2,0	Alargamicnto Elongation Lo=50 mm	Dureza HB Hardness HB	
08,8	816171	SH 5697#	00,274	30,200	34,00	00,3£1	
05'8	746141	SH 56974	00,274	305,00	34,00	139'00	
19't	141944	SH 86977	00'991	308,00	30,00	135,00	
68,0	146141	42692 HS	00,034	90,805	33,00	135,00	
St*t	142427	SH 6697*	00'657	307,00	31,00	136,00	
St't	142532	SH 66977	00,624	307,00	31,00	136,00	
09'10	145234	¥¥ 6797₽	473,00	00,292	34,90	00'0	
08'0	142589	SH 79#7#	00'899	378,00	51'00	185,00	
£6't	145603	45441	00°657	301,00	31,00	134'00	
Sp*t	147602	SH 6697#	00'657	30,705	31,00	136,00	
05,5	145296	SH 5697#	00'SL7	302,00	34,00	00'981	
19'#	142595	SH 86977	00'997	308,00	30,00	135,00	
02,8	142716	SH 56974	00°5L7	305,00	34,00	136,00	
08'0	142713	SH 29777	00'899	378,00	21,00	182,00	

Calidad Superficial

09'101

05,53

Fecha/Date: 05/04/2018

The state of the s	commencements of the administration of automorphisms	A before the financial and interest and district and dist	7
EN 10277-1	mente. Militari en la cientra per per use ar que especialmente.	noigireze	
Clase	40	DESCRIPCIÓN	

473,00

00'0

Observaciones: BARRAS DE ACERO ESTIRADAS / TORNEADAS EN FRIO SIN ALEAR

42629 AA

SI 9EL07

145769

142712

QUALITY DEPARTMENT: Certify that the product fulfils the order specifications. DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.

Directora de Calidad Firmado: Susana Fernández

SPECIFICATION CONTROL DRAWING

6

O

10 2012 -09-24

CHECKED B REFORMAT, ADD ASTM A108, ADD TOLERANCES NEW ISSUE 12.09.05 DART AEROSPACE LTD
HAWKESSURY, ONTARIO, CANADA
DRAWING NO.
M1018-R
SHEE 1018-1025 ROUND BAR DS CP SHEET 1 OF 1 SCALE NTS 12.09.05 01 06.12 DATE REV. B

0

PURCHASE MATERIAL: AIS 1018-1025 ROUND BAR

MIL-S-7097 OR (ASTM A108)

PART NUMBER: SPECIFICATION:

M1018-R D.DDD WHERE D.DDD = DIAMETER IN INCHES

TOLERANCES:

PER ASTM A108 AS FOLLOWS: EG. 7/8" ROUND BAR = M1018-R0.875

UP TO 1.5" INCL OVER 1.5" TO 2.5" INCL OVER 2.5" TO 4.0" INCL OVER 4.0" TO 6.0" INCL OVER 6.0" TO 8.0" INCL

TOLERANCE +0.000/-0.002 +0.000/-0.003 +0.000/-0.004 +0.000/-0.005 +0.000/-0.006

MATERIAL RECEIPT INSPECTION FORM

		:∃TAQ					15/56181 :3TAO
		NED OŁŁ BA:	SIGI				INSPECTED BY:
baniupat li) 7	ING SIGNOF	ENCINEER					OC 18 INSEECTION
		es I	the Quality Offic	ni bəteso	sters l		ARDNESS / DUROMETER READIN
						1	SIZE OF TEST SAMPLE
							TYPE OF MATERIAL
MEBSTER	DUR D	A AUG	НКВ	IRC			
	200 0115 016		ULTS BELOV				
	SS CHECK	SHUUBAH A M	ND PREFOR	IA IAIA3	TAM	OE	CUT SAMPLE PIECE
						1 .	INO IZM NOIGONINZ
					(N)	٨	DOES THIS REQUIRE AN EXTRUSION REPORT
					N	Y	ENGINEERING SIGN OLL
							DOES THIS MATERIAL REQUIRE
					N	(1)	CORRECT M# ON THE MATERIAL
				- 11 /	N	(1)	SORRECT MATERIAL IDENTFICATION
			hg Lth		N		CORRECT REF # TO LINK CERT
					N	2	CORRECT THICKNESS PHOTO REQUIRED
			80/4	WZSH	N	10	CORRECT MATERIAL PER M-DRAWING
				V	N	(X)	CORRECT GRAIN DIRECTION
•					(N)	X	CORROSION
			-		N	D	CORRECT FINISH
					(N)	人	SURFACE DAMAGE
					(1	1/人	
	S.	COMMENT			€ CK	(CP	DESCRIPTION
						NC	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ARANA Y LUPARDO, 2 48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN) TÎDO.: 946480211

Fax: 946480128 Email: calpnadera@calibradospradera.es www.calibradospradera.es



CERTIFICADO DE CALIDAD/QUALITY REPORT

1.5

EN 10504/DIN 20046

De acuerdo a /Made according to:

N. CEKLLEICYDO \ CEKLLEICYLE NK": 41801

Deinery More Mr. CUSTOMER LES ACIERS TRANSBEC (1997) LTÉE

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norms : EN 10277

: шиом

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTMA108

51,72	6LL6EI	9400-	881.I	("P/1 S) S1,78	RED. ESTIRADO	8101	96874-TLM
08,02	139780	940'0 -	3,264	("2) 08,02	KED EZLIKYDO	8101	96874-91M
\$1,72	£946£1	940'0 -	281.I	("4/1 S) 21,72	RED. ESTIRADO	8101	PAR-48154
08,02	139815	940'0 -	7 66	("2) 08,02	RED. ESTIRADO	8101	\$60L\$-NW
08,02	#\$46EI	940'0 -	886	("2) 08,02	RED. ESTIRADO	8101	EV081-1A9
12,64	SSLEET	940'0 -	769	("31/21 () 12/64	RED. ESTIRADO	1018	£708₽-LA9
08,02	179681	9400-	766		RED. ESTIRADO	8101	2087A-UO
08,02	155651	920'0 -	766	\$0,80 (2")		8101	AQM-47672
17'67	133621	940,0 -	288.1	("31/21 () 12,16")		8101	AQM-47672
		920'0 -	050.1	("4/1 2) 21,72		8101	ZLSLV-WS
\$1'15	139485	920'0 -	066	\$0,80 (2")		8101	ZLSLV-WS
08'05	139484	9200		(.91/51 1) 12'67		8101	89874-92M
12,64	139399		066	(5) 85 (2) (4) (2) 35/	RED. ESTIRADO	1	Z1874-UO
\$8'69	355951	701'0 -	ISL	("S) 08,02 ("S) 08,02		5001	9877A-91A9
08,02	139307	701'0 -	7L0'1	("4/1 2) 21,72		1018	19874-9LM
SI'LS	105651	910,0 -	2,234				IESY- TUM
sı'Ls	139149	9400-	020.1	("p\1 S) 21,72		1018	
58'69	138834	701'0 -	781'1	("4/£ (2 3/4")			9£474-UO
	5856EI	- 0,102	686'1	(4,)	RED. TORNEADO	8101	PA1-47284
7 m	710			Resembleon Secretarion			Pending of the Pending

Composición química de la colada / Chemical Analysis of Heat

1S %	S %	ă %	N %	oM %	trjaj	8) %	% %) %	COLADA Cast Nr.	40		MED
001'0	0000	0000	0000	000'0	009'0	000,0	0000	051,0	41229	585681		09'101
812,0	220,0	0100	6,003	0000	L18'0	0,132	0000	E71,0	DA TT214	₽£88E1	00,0	58,69
4020	0,024	0,012	600,0	000,0	9440	0,103	00000	641'0	DY 7LS17	671681	00,0	21,72
0,207	170'0	0,012	6,003	0000	944'0	E01'0	0000	6L1'0	DA 47214	139301	00,0	SILS
461'0	0700	0,012	0000	0,003	094'0	000,0	L81'0	074,0	DA 97414	705651	00,0	08,02
812'0	0,022	010'0	6,003	0000	L18'0	0,132	000'0	EL1'0	DA LTZIA	(SEEGE)	00,0	28,93
0,201	0,022	6,013	200'0	0000	L8L'0	6110	0000	LL1'0	41607 AG	668681	00'0	12,64
102,0	220,0	6,013	Z00°0	0000	L8L'0	611'0	000,0	LL1'0	41607 AG	139484	00'0	08,02
702,0	0,024	0,012	600,0	0000	9440	6,103	0000	641'0	DY 7/514	584681	00,0	SI'LS
107'0	ZZ0°0	6,013	0,002	0000	787,0	611'0	0000	LL1'0	DA 70314	055681	00'0	12,94
0,201	0,022	610,0	200'0	0,000	L8L'0	611'0	0000	LLIO	41607 AG	139551	00'0	08,02
102'0	0,022	6,013	200,0	0000	787,0 1	611'0	0000	LL1'0	DY L0917	139621	00'0	08'05
102,0	220,0	0,013	200,0	000'0	L8L'0	611'0	0000	LLI'0	DA 70014	SSL6EI	00,0	12,94
0,201	220,0	6,013	200,0	000,0	787,0	611'0	0000	LLTO	DA 70814	139754	00'0	08,02
102,0	220,0	0,013	200,0	0000	787,0	611'0	0000	LL1'0	41607 AG	139815	00'0	108,02
702,0	0,024	210,0	600,0	0000	944'0	0,103	0000	641'0	DY PLSIP	£979£1	00,0	51,72
107'0	220,0	0,013	Z00'0	0000	L8L'0	611'0	00000	LLI'0	DA 70014	087981	00'0	98,02
702,0	⊅ 70°0	0,012	600,0	00000	944'0	0,103	000,0	671,0	DA 47214	6779EI		51,72

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN) ARANA Y LUPARDO, 2

T₽₽ :: 946480211

www.calibradospradera.es Email: calpradera@calibradospradera.cs Fax: 946480128



CERTIFICADO DE CALIDAD/QUALITY REPORT

I.E

EN 10704/DIN 20046

De acuerdo a Made according to:

N. CERTIFICADO / CERTIFICATE NR: 47901

00'0

00'0

CUSTOMER Delivery Note Nr. LES ACIERS TRANSBEC (1997) LTÉE CLIENTE 10647 ALBARAN

Productos Calibrados de acero. Condiciones técnicas de suministro.

MOIJIES : EM 10277

Bright steel products. Technical delivery conditions.

00'0

: MUON.

Dureza BB Hardness	Line points ostitus os		Reststencta	COLADA	4O	MEDIDA	
HB	.mn 02=01	2mm/N %2,0	Zunn/N	Cast Mr.		Measurement	
00'581	30,00	00'667	458,00	41276	585681	09'10	
00'0	000	00°0	00,724	41577 AG	138834	58'69	
00'0	00'0	00'0	00'1Lb	41214 AG	139149	SI'LS	
00'0	00,0	00°0	00'14+	41214 AG	108681	\$1,72	
00'0	00'0	00'0	00'15L	DY 61717	139307	08,02	
00'0	00'0	00°0	00'257	DY LLSIT	139335	\$8,69	
00'0	00'0	00'0	00'657	9¥ L0917	139399	1767	
00'0	00'0	00°0	. 00'65†	DV L0917	139484	08,02	
00'0	. 00,0	00°0	00'147	41574 AG	139485	\$1,72	
00'0	. 00'0	00'0	00'657	DY L0917	055681	17'67	
00'0	. 00'0	00°0	00'657	41607 AG	138681	08,02	
00'0	00'0	00'0	00,624	DY L0914	139651	08'09	
00'0	00'0	00'0	00'657	DY L0917	557681	17'6	
00°0	00'0	00'0	00,624	DV L0917	7579£1	08,02	
00'0	00'0	00'0	00,624	DV L0917	518681	08'09	
00'0	00'0	00'0	00'147	DY PLSIP	£926£1	51,72	

Calidad Superficial

SI'LS

08'00

Fecha/Date: 21/06/2017

EN 10577-1		Оесстриоп
Clase	OF	DESCRIPCTIÓN

00'ILb

00,964

OPSCEARGORICS: BARRAS DE ACERO ESTIRADAS / TORNEADAS EN FRIO SIN ALEAR

DV #1214 VC

DY /091# 08/651

139779

QUALITY DEPARTMENT: Certify that the product fulfils the order specifications. DEPARTAMENTO DE CALIDAD: Certúlica que el mencionado producto comple con las especificaciones del pedido.

Directors de Calidad Firmado: Susana Fernández

PART NUMBER: TOLERANCES: PURCHASE MATERIAL: AISI (1018/1025 ROUND BAR SIZE UP TO 1.5" INCL. OVER 1.5" TO 2.5" INCL. OVER 2.5" TO 4.0" INCL. OVER 4.0" TO 6.0" INCL. OVER 6.0" TO 8.0" INCL. EG. 7/8" ROUND BAR = M1018-R0.875 M1018-R D.DDD WHERE D.DDD = DIAMETER IN INCHES MIL-S-7097 OR ASTM A108 PER ASTM A108 AS FOLLOWS: TOLERANCE +0.000/-0.002 +0.000/-0.003 +0.000/-0.004 +0.000/-0.005 +0.000/-0.006 SPECIFICATION CONTROL DRAWING CHECKED B REFORMAT, ADD ASTM A108, ADD TOLERANCES 12.09.05 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
ORAWING NO.
M1018-R
SHEE 1018-1025 ROUND BAR CP SHEET 1 OF 1
SCALE
NTS 12 09.05 01 06 12 DATE

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MATERIAL RECEIPT INSPECTION FORM

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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

t680010

VIRAJ PROFILES LIMITED

moo.leriv@oploiv -liem-o Works: SURVEY NO.- 25/1, 25/2, 26 & 34, Yillage, MAAN, Faluka- PALGHAR, Dist.- THANE, MAHARASHTRA 401 506, INDIA, e-mail- vicinc@vival.com

TEST CERTIFICATE

DATE

100008469952

PACKING LIST NO INSPECTION NO ORDER NO

9/61001052/19

P005927

42564 HEVI NO 29.06,2017

T(303) CKVDE STAINLESS STEEL BRIGHT BARS DESCRIPTION

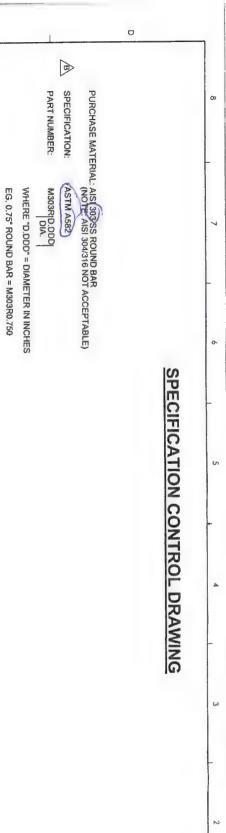
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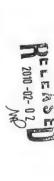
MATERIAL CONFIRMS TO DIN 10088-3:2005 COND.A. & ASTN ASSAN-12c1, ASTN A320/A320M-15c1, ASTN A884-16.ASS 1.ASMB SA 320 B8F CI.1 MIL.S-862 B GRADE QOS-764BA2 COND A. EXCEPT MARKING, UNS-S-30300.ASTN A314-2008, ASTN A320/A320M-15c, BRF CLASS 1.ASMB SA 320 B8F CI.1 MIL.S-862 B GRADE SPECIFICATION:

CERTIFIED AS PER EN 10201- 3.1

СОИТАМИЛАТІОМ, СООИТВУ ОР ОВІСІМ: ВИЗУА. MELT SOURCE: ADD. WE COVERM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE ON GRAIN BOUNDARIES, MACRO, GOOD, MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME OF HRS, WATER QUENCHED. MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPARS, MICRO-FREE FROM CONTINOUS CAREIDE NETWORK

We hereby certify that the material described above has been tested and complies with the terms of order/contract.





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REV.
DESIGN
DRAWN
CHECKED
MFG. APPR.
APPROVED
DE APPR.
DATE 10 B REF PAR 08-020A REF PAR 08-020A NEW ISSUE 10.01.05 DART AEROSPACE LTD
HAVINESBURY, ONTARIO, CANADA
DRAWING NO.
M303R
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North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON NŁK1Z3
Canada

FESS-11648304218 METALLURGICAL TEST REPORT

PO, 14245 6870 Highway 42 East

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000 50

Certificate: 368166 2

Customer: 007036 016

NAS Order: DS 0013262 01

Date: 1/08/2018 Page: 1

Steel: 304 Finish: 28

Corrosion: ASTN A262/15 A; 180Bend-0

PRODUCT DESCRIPTION:

Your Order: 4500847537

STAINLESS STEEL COIL, C.R. ANNEALED & PICKLED; UNS 30400
ASTM A240/16a, A480/16b, A666/15; ASME SA240/17, SA480/17, SA666/17
CHEM ONLY ON FOLLOWING ASME: A276/17, A479/17, A484/16, A312/16
CHEM ONLY ON FOLLOWING ASME: SA312/13, SA479/13
AMS 5513y XMRK; MIL-S-5059D AMEND3 (X CROWN MEAS)
NACE MX0175/ISO 15156-3:2009 A, MX0103/07; QQS766D-A X MAG PERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; RoHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg.by a Quality Mgt.Sys. in Conf. w/ISO 9001
*Melted & Manufactured in the USA; Mat'l is DFARs Compliant

02648C	Produ
C	Product Id
02648C C	Coil #
.1200	Skid # Thickness Width
.1200 48.0000	Width
15,920 COIL	Weight
COIL	Length
ы	Mark
ь	Pieces
160009400	Mark Pieces Commodity Code

a

HEMICAL

ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323 Chemical Analysis per ASTM A751/14a

CM C % CR % CU % MN % MO % N % NI % P % S % US .0442 18.1730 .4155 1.7665 .3340 .0509 8.1115 .0335 .0010 SI % .2490
CR % CU % MN % MO % M % NI % P % S 18.1730 .4155 1.7665 .3340 .0509 8.1115 .0335
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MECHANICAL PROPERTIES

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	0C .
46.94	.2% YS 200 KSI
51.44	20C .2% YS 20C ELONG % Hard KSI %-2" RE
87.50	Hard
86.00	Tail Hard
	02648C C FT 97.43 46.94 51.44 87.50

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr.

KRIS LARK

1/08/2018

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Profession and the second

PURCHASE MATERIAL: AIS (304/316 SS SHEET ANNEALED

	GAUGE THICKNESS REFERENCE			PART NUMBER:	FINISH:	SPECIFICATION:
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### A Provided HTM		2B FINISH = M304S16GA No. 4 POLISHED = M304S16GA4P			AUMBER	

RELEASED

2015 FEB 04

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ECN 15-522 9

AJS 15.01.08 MB 12.09.20

DEFINED FINISH OPTION (ZN C8) AND EXAMPLE OF MATERIAL PIN WITH FINISH OTHER THAN 2B (ZN B5). B GAUGE REF (CB-1), REF PAR 08-020A

S. DS

01.0924 DATE 09.06.01

15.01.06 DRAWING NO
M304S
M304S
SHEET 1 C

TITLE
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DOPPEDANT SOON OF OUR T

SHEET 1 OF 1

DART AEROSPACE LTD

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DESIGN

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ZHENGZHOU MINGTAI INDUSTRY CO., LTD

TEL: 371-67898611 FAX: 371-67898612 **ZONE, ZHENGZHOU HENAN CHINA** ИО.6 СНАИССНИИ ROAD, НІСН АИD NEW ТЕСНИОLOGY

NAMES OF STREET 帕拳岩亦

INSPECTION CERTIFICATE

4/08/18 :3TAG SHIPPING MARKS: TORONTO, CANADA DESTINATION: GINGDAO, CHINA LOADING PORT: CONTRACT NUMBER: 7481780024/6110780034 Z-RYWP180410 INVOICE NO.:

P.O. O. 4500870119/450084/2019

MANUFACTURER: ZHENGZHOU I ZHENCZHOU [[NUTAT] MUSTRIDI, LTD.

ALUMINIUM SHEETS AND COILS ALLOY 3003/H14 AND 5052/H32

ДАРР ТОВОИТО, САИАDA

2025 H32 GFD1803W50054

(2022 H33 (CEB1803M2009)

2025 H3S

Temper

ZEH

H32

H32

Temper

GRADNATS

GRAGNATS

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ON.

VOIIA

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2025

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CEB1803M20005

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CFD1803W50054

CFB1803W50092

Lot No.

H1¢ | CEB1803M30080

H14 CEB1803M30080

DESCRIPTION OF GOODS:

后公卿育业灾泰即州联

4.826*1524*3048

1.016*1219*2438

2.54*1219*C

3,175*1524*3658

(MM)3ZIS

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Fe

GRADNATS

GRAGNAT2

GFB1803W50097 0.114 0.294 0.026

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!S

We certify that 5052H32 material complies withleSTM B209-14, AMS QQA-250/8B, AMS 4016 M standard. We certify that 3003H14 material complies with ASTM B209-14, AMS QOA 250/2, AMS 4008K standard.

MECHANICAL PROPERTY TEST REPORTS

610.0

1'0

751.0

2.0-20.0

no

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ΠM

ACTUAL MILL CHEMICAL UNIT:%

190.60*120

96*84*040

100-48-C

125-60-144

SIZE(IN)

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2,462

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Others

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710.0

750.0

PURCHASE MATERIAL (5052-H32 AL UMINUM SHEET SPECIFICATION. OG-A-250/8 OR AMS-OQ-A-250/8 OR AMS-OQ-A-250/8 OR AMS-OQ-A-250/8

PART NUMBER:

M5052H32S XXX

PREFERRED SIZE:

XXX BY 4FT BY 8FT

EG. 0.063° THICK SHEET = M5052H32.063 WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

DATE O DESIGN APPROVED 09.09.26 TITLE
5052-H32 SHEET SPEC
COPPRIGHT 0 2010 NO MART ARROSTAGE TO M5052H32S DART AEROSPACE LTD
HAWKESBURY ONTARIO CAMADA SHEET 1 OF 1 REV. B SCALE

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		NED OLL BX:	alei				INSPECTED BY:
(beniupen îi) 7	INC SIGNOE	ENGINEER	277				C 18 INSPECTION
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					N	R	CORRECT M# ON THE MATERIAL
					N	0	ORRECT MATERIAL IDENTFICATION
		Lb	B 1803 रेग 500	19:1H	N	B	CORRECT REF # TO LINK CERT
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					N	Q	CORRECT GRAIN DIRECTION
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					N (N)	(3)	SURFACE DAMAGE CORRECT FINISH
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	\$ 0200 T :: ON	PO / BATCH (- Chi	0-54		DAIRATAM STAG STAG

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

:BTAG

C/808/3



CLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Ba Zia-Vung Tau province, Viel Nam Address: My Xunn B1-Conac industrial zone, My Xunn town, Tan Thanh district,

+84(0)643924954 :lal

184(0)943924953 FEX:

MILL TEST CERTIFICATE

Date: January 19, 2017

Shipping Ref No.: 17-0046 Customer PO: Inventory PO number: 16-P-421

TC NOT DC HWM 110535

Date of issue: lanuary 18, 2017

Die Number: 1000005 Hein Code: 1043103

Alloy & Tunnper; 6061-16

Production Description: Round Bar 1.25"x 20' 6061-T6 D00005

प्रान्त :(ग्रेटम) ध्रा**डुम**्स

Bundle number 16-P-421-090,16-P-421-091,16-P-421-093,16-P-421-093,16-P-421-094

Date: 10/01/2017 Heat Number: SXF162069-

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

1102/10/10	01'0>	50.0>	TET.86	610.0	710'0	T80.0	0.022	ENC.0	9.230	176'0	TE3.0
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MECHYMICAL ANALYSIS:

£102/10/L0	8.01	3.9£	1,95
thramost.	Elongation % LN 2"	Yield Strength (ksi)	Ull. Strength (ksi)

with chemical gradysis and mechanical analysis to match aluminium alloy standard. All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard,

บอดุเนทบ morning from the date of purchase and are available for review upon request, referring to ASTM and the PO noted and have been found to meet all the applicable requirements. Contifications are kept on tile for 36 We hereby confidentiate the item listed have been checked and tested in accordance with the specifications

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PURCHASE MATERIAL 6061-T67651/T6510/T6511/T62 ALUMINUM ROUND BAR QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B227

8

SPECIFICATION:

PART NUMBER:

M6061T6R|D.DDD| |DIA.

EG. 5/8" ROUND BAR = M6061T6R0.625 WHERE "D.DDD" = DIAMETER IN INCHES

0

DESIGN
DRAWN
CHECKED
MFG. APPR.
APPROVED B REFORMAT DWG, ADD 8211& 8221 SPEC (ZN D8-1), NEW ISSUE DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T6R SHEE 6061-T6 ROUND BAR BY ç SHEET 1 OF 1 01.06.08 DATE 09.07.13 REV. B SCALE

REV.

DE APPR.

SLN

09.07.13

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(if required)	ING SIGNOF	ENGINEER			5		IC 18 INSPECTION
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					TAI	人	EXTRUSION REPORT
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					N)	1	ENGINEERING SIGN OLL
					0	1	DOES THIS MATERIAL REQUIRE
					N	(1)	CORRECT M# ON THE MATERIAL
					N	X	ORRECT MATERIAL IDENTFICATION
		Ь	70C 9/1X	SIH	N	X	CORRECT REF # TO LINK CERT
					1	X	РНОТО ВЕQUIRED
					N	B	CORRECT THICKNESS
			ITT 8 4	12517	N	(1)	CORRECT MATERIAL PER M-DRAWING
					N	(X)	CORRECT GRAIN DIRECTION
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

:3TAQ

DATE: (8/07/31

Quality Manager

months from the date of purchase and are available for review upon request, referring to ASTM and the PO noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 We hereby certify that the item listed have been checked and tested in accordance with the specifications match aluminium alloy standard.

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to

L10Z/S0/80	11.4	2.85	423
Remark:	Elongadon % LN 2"	Yield Strength (kgi)	Ult. Strength (ksi)

MECHYNICYT YNYTK212:

L10Z/S0/80	01'0>	20.0>	875.79	0.020	110.0	960'0	\$10.0	STZ.0	T\$2.0	226.0	609.0
Remark:	TOTAL	EVCH	ΙV	IL	#Z	Ch.	nMi	Cu	Fe	3M	IS

CHEMICYT YNYTASIS: %

Applicable Specifications: ASTM B221 STANDARDS

Date: 10/05/2017

Heat Numbers SXF171892

Bandle number: P-17529-007

Length (inch): 240

Production Description: Fist Bar 1"x2"x 240" 6061-T6 D00227

+84(0)943354323

+84(0)943354324

Miley & Temper 5061-16

Die Numbert D00223

Item Code: 1927100

Date of issue; October 31, 2017

TO NOTE DO HWINT 14466

Shipping Ref No.: 17-2204

PO number: P-17529

Fax:

Tel:

Date: November 17, 2017

MILL TEST CERTIFICATE

BA RIA VUNG TAU PROVINCE, VIETNAM

Address: MY XUAN BI-CONAC INDUSTRAL ZONE, MY XUAN TOWN, TAN THAMH DISTRICT,

oper Adeliam Co-Ltd GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Ihsbh Ergi-Hal

1-21-744 LoheH

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M6061T6B T.TTT X WW.WWW QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

PURCHASE MATERIAL 6061-TO/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

PART NUMBER:

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES THICK WIDTH

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

DELEASE

DRAWN
CHECKED
MFG. APPR.
APPROVED DE APPR. DESIGN REV B REMOVE QQ.A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN 07-1) A NEW ISSUE 09.07.13 M6061T6B DESCRIPTION 6061-T6 BAR DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA BY DATE Ç DS REV. B 01.06 08 09.07.13 SCALE >

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					N	(1)	CORRECT M# ON THE MATERIAL
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CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com



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Actual Physical Properties

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A\N	A/N	96	KE	20°6	7.12	8.94	0003	T000	HKT41-131
A\N	A\N	96	RE	L.SI	6°TÞ	9.94	0000	T000	HKI 47-197
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Applicable Requirements:

conforms to 16-not applicable to other tempers) FELVI-BSSJ-14 STENCILED ASME-SBSS1 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also

Miscellaneous Notes

OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL. MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. WETTHER MERCURY NOR ANY MANUFACTURED IN USA (COMMERCE, CA) MELTED IN USA

Order Number: 6035138 Plant Serial: 00295392

Line Item: 001

Page 1 of 2

CERTIFIED TEST REPORT

CERTIFICATION

Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Line Item: 001 rder Number: 6035138 Plant Serial: 00295392 Page 2 of 2

SPECIFICATION: PURCHASE MATERIAL 6061)T6/T651/T651/T651/T62 ALUMINUM BAR QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

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M6061T6B T.TTT X WW.WWW WHERE "T. TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES THICK WIDTH

PART NUMBER:

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

DE APPR. CHECKED DESIGN B REMOVE QQ.A.250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) A NEW ISSUE 09.07.13 DESCRIPTION DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T6B
SHEI 6061-T6 BAR DS CP BY DATE REV. B SHEET 1 OF 1 01.06.08 09.07.13 SCALE

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				(N)	7	ENGINEERING SIGN OFF
						DOES THIS MATERIAL REQUIRE
				N	A	CORRECT M# ON THE MATERIAL
				N	N	ORRECT MATERIAL IDENTFICATION
		-61-141XH	1-2H	N	M	CORRECT REF # TO LINK CERT
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				_	C 1	CORRECT THICKNESS
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1956-49T 30FOZ -661-74-7



GIODAL VIERRE GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,

BA RIA VUNG TAU PROVINCE, VIET NAM

+84(0)643924954

Tel:

Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: February 12, 2018

PO number: P-17722-1

Item Code: 1094300 Date of issue: January 23, 2018 PC No: DC HWN810589 Shipping Ref No.: 18-0207

Alloy & Temper: 6061-76 Die Number: D00214

Production Description: ALUMINIUM EXTRUDED PROFILES

BAR SE RECT .500"X2,000"X 240" 6061-T6 D00214

Length (inch): 240

Date: 08/01/2018 Heat Number: SXE180043 Bundle number: P-1772-025

Applicable Specifications (ASTM B22) STANDARDS

CHEMICAL ANALYSIS: %

0.661 0.987 0.240 0.258 0.025 0.074 0.013 0.017 97.634 <0.05 <0.10 05/01/2018												
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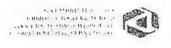
MECHVAICVT VAVIASIS:

Kemark:	Flougation % LN 2"	Yield Strength (ksi)	Ult. Strength (ksi)
8107/10/90	5.01	1.25	8.04

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to

months from the date of purchase and are available for review upon request, referring to ASTM and the PO noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 We hereby certify that the item listed have been checked and tested in accordance with the specifications match aluminium alloy standard.

Quality Manager



SPECIFICATION: PURCHASE MATERIAL 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221)

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M6061T6B T.TTT | X | WW.WWW

PART NUMBER:

WHERE "T.TTT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES THICK WIDTH

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

MFG. APPR. APPROVED DESIGN CHECKED DRAWN REMOVE QQ.A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) NEW ISSUE 09.07.13 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T6B SHEI DESCRIPTION 6061-T6 BAR DS 01.06.08 BY DATE CP REV. B SHEET 1 OF 1 SCALE NTS 09.07.13 >

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PhE-745



LB ALUMINIUM BERHAD

機能性性性 A Maria A Mari

MITT CERTIFICATE

		Section Sketch :
		CUSTOMER TO NO.:
CERTIFICATE NO.:	EXTRUSION DATE: Oct-25-2017	3900 3900 :
I I E S T - I S O T I A	WORK ORDER ; 770728	IBIJ448 Sytes okdek no :
DATE: Oct-30-2017	E01431ME00100	

	section Sketch :

			70-141	ASTM B2	thing conside	Comp			
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We irrectly could that the material covered by this report has been verified or tensed according to the salks reformed assigning morphod or the requirements of the companies or requirements are too the material and the composition funds. Also, not the morney is not a normal contaminate all limitations of the composition funds. Also, not the morney is not a normal contamination allows. Methor morcury not any of its composition funds. Also, not the morning or not the normal contamination of the formal continuous and the morning of the composition funds.

** This certificate of Analysia has been produced electronically and is valid without signature **

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Enquiry@lbalum.com.my www.lbalum.com Tel: 603-8725 8822 (15 Lines) Fax: 603-8725 8828 (General), 8725 8833 (Sales), 8725 8866 (Export) Lot II, Islan Perusahaan I, Kawasan Perusahaan Beranang, 43700 Beranang, Selangor Darul Ehsan, Malaysia.

PART NUMBER: SPECIFICATION: PURCHASE MATERIAL: 6061-16/1651/16510/165117/62 ALUMINUM BAR M6061T6B T.TTT X WW.WWW

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR(ASTM B22T)

WHERE "T. TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

THICK

WIDTH

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

DRAWN DESIGN REV. B REMOVE QQ.A.250/11 OPTION, REFORMAT NOTES, ADD ASTM 8211/8221 (ZN D7-1) A NEW ISSUE 09.07.13 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T6B
SHEE DESCRIPTION 6061-T6 BAR BY ę SHEET 1 OF 1 SCALE 01.06.08 09.07.13 DATE REV. B > .

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							F MATERIAL TEST SAMPLE
WEBSTER	ם אחם	A AUG	НКВ	чкс			(4)011447
•		1	ILTS BELOW	RESU	SECO	4	
	SS CHECK.	A A HARDNE	D PREFORM	NA JAIRI	TAM	: OE	CUT SAMPLE PIECE
					[N)	人	EXTRUSION REPORT
					0	/ /	DES THIS REQUIRE AN
					N	٨	ICINEERING SIGN OFF
					l NI	1	ECT M# ON THE MATERIAL THIS MATERIAL REQUIRE
					N	8	T MATERIAL IDENTFICATION
		h	HIFICILY	7:2H	N	A	ECT REF # TO LINK CERT
					N	Y	PHOTO REQUIRED
			1 2 201	117.1	N	8	ORRECT THICKNESS
			17781 V	VLST	N	XXXXX	RECT GRAIN DIRECTION T MATERIAL PER M-DRAWING
			····		N	9	CORROSION
					N	(1)	CORRECT FINISH
					N	人	SURFACE DAMAGE
						//	
	S.	COMMENT				(CPG NC	DESCRIPTION
SINAWWOO .							

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

:3TAQ

DATE: 18/58/61

LHEC FUL 21320

F611-74-

SAHE



Global Metham Co.Ltd GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,

BA RIA VUNG TAU PROVINCE, VIET NAM

+84(0)043924954

+84(0)643924953

Fax:

MILL TEST CERTIFICATE

Date: April 26th, 2018

76/02/2018

Remark:

<0.10

EVCH LOTAL

Other

S0.0>

282.89

IV

610.0

L

Date of issue: April 10, 2018 LC No.; DC HMN811301 Shipping Ref No.: 18-0817 PO number: P-18057

Die Number: D00141 Item Code: 1931000

Alloy & Temper; 6061-75

Production Description: ALUMINIUM EXTRUDED PROFILES

Flat Bar 1,5" x 3" x 240" 6061-T6 D00141

Length (inch): 240

006.0

BM

865.0

!S

Bundle number; P-18057-008,P-18057-007

Heat Number: SXF:180264

Applicable Specifications; ASTM B221 STANDARDS Date: 01/03/2018

122,0

Cu

CHEMICAL ANALYSIS: %

112.0

8102/20/92	5'01	5.25	38.6	
Remark:	Elongation % LN 2"	Yleld Strength (ksi)	Ulf. Strength (ksi)	
		'SI	MECHANICAL ANALYS	

0.033

uZ

match aluminium alloy standard. All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to

960'0

Cr

910'0

пМ

months from the date of purchase and are available for review upon request, referring to ASTM and the PO noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 We hereby certify that the item listed have been checked and tested in accordance with the specifications

TRUYG TÂM KIÊM NGHÎÊM CÔNG TY Quality Manager

CO. LTD TESTING CENTER GLOBAL VIETNAM ALUMINUM линн ином толи сли угртилм

0

PURCHASE MATERIAL: 606 THT651/T6510/T6511/T62 ALUMINUM BAR SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM BZ11 OR ASTM BZ21

PART NUMBER:

M6061T6B T.TTT | X | WW.WWW

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES THICK WIDTH

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

DESIGN
DRAWN
CHECKED
MFG. APPR.
APPROVED B REMOVE QQ.A.250/11 OPTION, REFORMAT NOTES, ADD ASTM 8211/8221 (ZN D7-1) NEW ISSUE 09.07.13 DRAWING NO.

M6061T6B

SH 6061-T6 BAR DART AEROSPACE LTD CP BY DATE 8 REV. B SHEET 1 OF 1 SCALE 01.06.08 09.07.13 >

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M DUR A D	ESULTS BELO	MATERIAL GOORD R HRC	1G	JAMAS TEST 40 BIX
W DUR A D	ESULTS BELO	MATERIAL GOORD R HRC	1G	YPE OF MATERIAL ISE OF TEST SAMPLE INDAESS / DUROMETER READIA
M DUR A D	ESULTS BELO	MATERIAL GOORD R HRC	1G	THE OF MATERIAL BLACK
M DUR A D	ESULTS BELO	MATERIAL GOORD R HRC	1G	ANDE OF MATERIAL BJ9MAS T83T 70 3SI
M DUR A D	ESULTS BELO	MATERIAL GOORD R HRC	1G	THE OF MATERIAL BLACK
M	ESULTS BELO	MATERIAL FCORD R	L L	CUT SAMPLE PIECE YPE OF MATERIAL SIZE OF TEST SAMPLE INEQUESS / DUROMETER READIN
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M	ESULTS BELO	MATERIAL FCORD R		
M	ESULTS BELO	MATERIAL FCORD R		CUT SAMPLE PIECE
		JAIRITAN		CUT SAMPLE PIECE
J SSENUAVA V WO	OND DEECO		130	30319 3 IGMVS TI 10
		N	1	EXTRUSION REPORT
			.	DOES THIS REQUIRE AN
		N.	1 ^	DOES THIS MATERIAL REQUIRE DOES THIS MATERIAL REQUIRE
	-	N	1	CORRECT M# ON THE MATERIAL
		N N	1	ORRECT MATERIAL IDENTFICATION
hara		A	CORRECT REF # TO LINK CERT	
	VI J			PHOTO REQUIRED
		N	1	CORRECT THICKNESS
	1088 WL)	HN	(J)	CORRECT MATERIAL PER M-DRAWING
		N	(A)	CORRECT GRAIN DIRECTION
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				CORRECT FINISH
				SURFACE DAMAGE
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COMMENTS		1		DESCRIPTION
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CERTIFIED INSPECTION REPORT

Arconic

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

 Ship Date
 B.L. No.
 Invoice No.
 Arconic No.
 Item

 2018-05-03
 11728360
 00000
 1001004407-1
 DPE-04407-1

 P.O. No./Govt Contract No.
 Customer
 Arconic Item

S. Now Ast Terrance Thom Nanda Srinivasan Oyality Assurance Management Oyality Oyality

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Per:

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and that the mechanical properties shown on the face of this aheet.

Page 1 of 2

U10844 Ln#: 1

Item Description
0.04 'IN TK (+0.0000 -.0035) X 48.0 'IN W (+.125 0.04 'IN TK (+0.0000 -.0035) X 48.0 'IN W (+.125 125) X 144.0 'IN LN (+.15625 -.15625) CAT D 126862 (N) A/T 6061T6 FLAT SHEET FOR DISTRIBUTORS TOLERANCE
GUARANTEED. AMS#UZ7 REV N ANSIH35.2 REV 2017 EXC_MRK ASME-SB209 REV 15 EXC_MRK ASTWB209 REV 14
((MARKED)) KRĀFT PAPĒR INTERLEĀVED
MAX GROSS SKID WGT: 4750 LB QUAN TOL +/10 % CQR D126862 REV 44 CUST REQ 18-0501 *** W/E 18-08-04 ***

Num Package Ticket Lot 463231 Weight 3908 Quantity MOM Dd Inspector Clock Numbers 27887 46940

1997-08-01. Notes for CQR: D126862.44
PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MEET THE REQUIREMENTS OF AMS-QQ-A-250_11 ORIGINAL REVISIO N DATED

CQR: D126862.44 -Specification Limits Long Transv. Max 42.0 KSI KSI 35.0 EL4D PCT 10

Alloy (261) Lot: 463231 Chemical Composition Dir Long Transv. Mechanical, Physical, Metallography, Quantometer Results Min No-> SI FE CU MN MG CR ZN TI Each 0.8 0.7 0.40 0.15 1.2 0.35 0.25 0.15 0.05 0.40 0.15 0.8 0.04 UTS KSI 48.8 KSI 41 EL4D PCT 12 Other Other 0.15 Total Aluminum REMAIN

1

CERTIFIED INSPECTION REPORT

Arconic

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

RIVERDALE, IA.

Ship From:

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DPE-04407-1

Terrence Thom Quality Assurance Manage Page 2 of 2

L. All

U10844 Ln#: 1

Nandu Srinivasan ufacturing Director - Davenport & Satelfites

S. Narth

Cast Number										Lot: 463231
Chemical - OES										~ Mechanical,
SI 0.60										Physi
0.4	48.6	48.8	48.8	48.8	48.8	48.7	49.2	49.1	49.3	cal,
CU 0.22	O	œ	00	00	80	7	N	J	(L)	Metall
MN 0.05	40.5	40.6	40.8	41	40.8	40.8	41.5	41	41.5	ograpy
MG 1.0										, Qua
CR 0.16	12.5	12.5	12	12	12.3	12.1	12.1	12.4	12	ntomete
ZN 0.04										er Res
TI 0.04										ults
SI FE CU MN MG CR ZN TI Other 0.60 0.4 0.22 0.05 1.0 0.16 0.04 0.04 < 0.05										(cont.)
TI Other Each Other Total 0.04 < 0.05 < 0.15										- Mechanical, Physical, Metallograpy, Quantometer Results (cont.)

This material was melted in the United States or a Qualifying Country [REF DFARS 225.872.1(a)]; it was manufactured in the United States

O

O

PURCHASE MATERIAL 6061-TOT62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR 4027 OR ASTM B209

0

WHERE "XXX" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE) M6061T6S|.XXX| X| W.WWW

PART NUMBER:

XXX BY 4FT BY 8FT FOR SHEET EG. 0.063" THICK SHEET = M6061T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

0

PREFERRED SIZE:

ž.

APPROVED CHECKED MFG, APPR. APPROVED DE APPR

DATE 17.12.13

0	ADD PLATE AND 1851 SPEC	aec.	346	17 12 13
8	REFORMAT DWG, ADD 8209 SPEC (ZN D8-1).	209 SPEC (ZN D8-1).	ę	09.07.13
A	NEW ISSUE		유	01.06.08
REV		DESCRIPTION	Вү	DATE
DESIGN	N DS	DART AEROSPACE LTD	ACE L	8
DRAWN		HAWKESBURY, ONTARIO, CANADA	IO, CANAL	A
CHECKED	(ED NO	DRAWING NO.		REV. C
MFG, APPR		M6061T6S		SHEET 1 OF 1
APPROVED	TS.	TITLE		SCALE
DE APPR	CB	\$\infty\$ 6061-T6 SHEET/PLATE SPEC	TE SP	EC NTS
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					HARDNESS / DUROMETER READING
					SIZE OF TEST SAMPLE
					JAIRATAM 90 39YT
WEBSTER	ם אחם	A AUG	НКВ	HRC	
		-	JLTS BELOW	CORD RES	BB
	SS CHECK.	A HARDNES	ND PREFORM	NA JAIRSTAN	CUT SAMPLE PIECE OF N

testers located in the Quality Office

:3TAQ	(0/80/8)	: ETAG
SIGNED OEE BA:	H	INSPECTED BY:
ENCINEERING SICNOEE (IL reduited)		QC 18 INSPECTION

Arconic

CERTIFIED INSPECTION REPORT

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA.

Invoice No. Arconic No. Item

2018-06-05 11762884 Customer 00000 1001007635-1

Arconic Item

DPE-07635-1

P.O. No./Govt Contract No. U10855 Ln#: 1

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Per:

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

3519110 Ship Date

B.L. No.

L. Alle Quality Assurance Manage Terrence Thorn

Nandu Snrivasan Manufacturing Director - Davenport & Saleilites

S. Nowhet

Page 1 of 2

Item Description
0.08 IN TK (+0.0000 -.0045) X 48.0 IN W (+.125 125) X 144.0 IN LN (+.15625 -.15625) CAT D 126901 (N) A/T 6061T6 FIAT SHEET FOR DISTRIBUTORS TOLERANCE
GUARANTEED. AMSG1027/REV N ANSH35.2 REV 2017 EXC_MRK ASME-SB209 REV 15 EXC_MRK ASTWB209 REV 14
((MARKED)) KRAFT PAPER INTERLEAVED
MAX GROSS SKID WGT: 4750 LB QUAN TOL +/25 % CQR D126901 REV 47 CUST REQ 18-0501 *** W/E 18-08-04 ***

Package Ticket Lot (135892 369933 Weight 3902 Quantity 75 Ŋď Inspector Clock Numbers 47397 27908

Num

Notes for CQR: D126901.47
PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MEET THE REQUIREMENTS OF AMS-QQ-A-250_11 ORIGINAL REVISIO N DATED 1997-08-01.

CQR: D126901.47 -Specification Limits

Long Transv. Max 42.0 UTS . TYS 35.0 EL4D PCT 10

Alloy 6061 Lot: 369933 Chemical Composition Dir Long Transv. Mechanical, Physical, Metallography, Quantometer Results Min No-> SI FE CU MN MG CR ZN TI Each Total 0.8 0.7 0.40 0.15 1.2 0.35 0.25 0.15 0.05 0.15 0.40 0.15 0.8 0.04 √ KSI √ 47.6 UTS V 40.4 PCT √ 13.7 EL4D Other Other Total Aluminum REMAIN



CERTIFIED INSPECTION REPORT

We hareby certify that the malerial covered by this certificate has been inspected with, and has been found to meet the applicable requiraments described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the machanical properties shown on the face of this sheet.

Arconic

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA.

2018-06-05 3519110 Ship Date P.O. No./Govt Contract No. B.L. No. 11762884 Customer Invoice No. 1001007635-1 Arconic No. Arconic Item item

DPE-07635-1

U10855 Ln#: 1

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Per: Terrence Thom Quality Assurance Menager 1 the

Nandu Srinivasan Manufacturing Director - Dayenport & Satellites S. Nawat

Page 2 of 2

Cast Number 18P0104011											Lot: 369933
Chemical - OBS Actuals											- Mechanical, Physical, Metallograpy
											Physi
FE / CU 0.5 0.2	V47.6	V47.5	V47.5	V47.5	147.6	V47.5	v47.5	V47.5	V48.1	V48.1	cal, Meta.
4 0.01 / 1	140.4	/40.2	V40.2	V40	V40.1	V40	V40	V40	V40.5	V 40.5	-
SI / FE / CU / MN / MG / CR / ZN / TI / Other Bach Other 0.63 0.5 0.24 0.01 0.9 0.16 0.01 0.06 < 0.05 < 0.15	~13.7	√13.7	√13.5	J13.7	√13.9	J13.7	V13.8	V13.6	√13.9	v 13.8	Quantometer Results (cont.)
0.0 TI											Results
0ther 6 < 0.05											(cont.)
other Bach Other Total											
STANK!	(106~)	NS	SEC.								

This material was melted in the United States or a Qualifying Country [REF DFARS 225.872.1(a)]; it was manufactured in the United States

CERTIFIED INSPECTION REPORT

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

Arconic

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA

DPE-93214-2

3507369 Ship Date B.L. No. Invoice No. Arconic No.

2018-05-22 P.O. No./Govt Contract No. 11745765 Customer 00000 1000993214-2 Arconic Item

C75485 Ln#: 2

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Page 1 of 2

Manufacturing Director - Davenport & Salelifies

S. Now Not

0.08*/IN TK (+0.0000 -.0045) X 48.0 IN W (+.125 .125) X 144.0*/IN LN (+.15625 -.15625) CAT D 126901 (N) A/T 6061T6**FLAT SHEET FOR DISTRIBUTORS TOLERANCE
GUARANTEED. (AMS4027*REV N ANSIH35.2 REV 2017 EXC_MRK ASME-SB209 REV 15 EXC_MRK ASTMB209*REV 14 MAX GROSS SKID WGT: 4750 LB QUAN TOL +/-25 % CQR D126901 REV 47 CUST REQ 18-04-((MARKED)) *** W/E 18-04-07 *** KRAFT PAPER INTERLEAVED

476276 Package Ticket Tot (13/17/4 369933 3918 Weight 75 Quantity MOU DG 47397 27908 Inspector Clock Numbers

Num

Notes for CQR: D126901.47
PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MEET THE REQUIREMENTS OF AMS-QQ-A-250_11 ORIGINAL REVISIO N DATED 1997-08-01.

Dir Long Transv. Max KSI TYS KSI PCT CQR: D126901.47 -Specification Limits

16 Tmpr Alloy (061) Lot: 369933 Chemical Composition Dir Long Transv. Mechanical, Physical, Metallography, Quantometer Results
NO-> UTS TYS EL4D
TYS TYS PCT
Test KSI KSI PCT
47.6 40.4 13.7 Min 42.0 SI FE CU MN MY CN 0.8 0.7 0.40 0.15 1.2 0.35 0.25 0.15 0.05 0.40 0.15 0.8 0.04 Deathle 35.0 ZN Each Other Other 0.15 Total Aluminum REMAIN



, Rî

Arconic

3507369 Ship Date 2018-05-22

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

	S
	Ship From
•	rom:
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	/ERDAL
	H

B.L. No. 11745765 00000 Invoice No. 1000993214-2 Arconic No. Item

P.O. No./Govt Contract No. C75485 Ln#: 2

Customer

Arconic Item

DPE-93214-2

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Per:

We hereby certify that the majorial covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the fece of this sheet.

Terrence Thom Quality Assurance Manage Come the like

Nandu Srintvasan Manufacturing Director - Davenport & Satellites S. Nowast

Page 2 of 2

Lot: 369933 - Mechanical, Physical, Metallograpy, Quantometer Results (cont.)	SI FE CU MN MG CR ZN TI Other Each Other Total 0.63 0.5 0.24 0.01 0.9 0.16 0.01 0.06 0.05 0.05 0.15 0.05	Other	.01~ 0.06	WG CR ZN	MN MG	SI FE CU 0.63 0.5 0.24	Chemical - OES SI Actuals 0.6	Cast Number 18P0104011	Cast 18P01
369933 - Mechanical, Physical, Metallograpy, 48.1 40.5 48.1 40.5 47.5 40 47.5 40 47.5 40 47.5 40 47.5 40 47.5 40.2				13.7	40.4	47.6			
369933 - Mechanical, Physical, Metallograpy, 48.1 40.5 48.1 40.5 47.5 40 47.5 40 47.5 40 47.5 40 47.5 40 47.5 40 47.5 40.1				13.7	40.2	47.5			
369933 - Mechanical, Physical, Metallograpy, 48.1 40.5 48.1 40.5 47.5 40 47.5 40 47.6 40.1 47.5 40				13.5	40.2	47.5			
369933 - Mechanical, Physical, Metallograpy, 48.1 40.5 48.1 40.5 47.5 40 47.5 40 47.5 40 47.6 40.1				13.7	40	47.5			
369933 - Mechanical, Physical, Metallograpy, 48.1 40.5 48.1 40.5 47.5 40 47.5 40 47.5 40				13.9	40.1	47.6			
369933 - Mechanical, Physical, Metallograpy, 48.1 40.5 48.1 40.5 47.5 40 47.5 40				13.7	40	47.5			
369933 - Mechanical, Physical, Metallograpy, 48.1 40.5 48.1 40.5 47.5 40				13.8	40	47.5			
369933 - Mechanical, Physical, Metallograpy, 48.1 40.5 48.1 40.5				13.6	40	47.5			
369933 - Mechanical, Physical, Metallograpy, 48.1 40.5				13.9	40.5	48.1			
369933 - Mechanical, Physical, Metallograpy,				13.8	40.5	48.1			
		(cont.)	Results	Quantometer	-	Physical, Meta	- Mechanical, 1	369933	Lot:

This material was melted in the United States or a Qualifying Country (REF DFARS 225.872.1(a)); it was manufactured in the United States

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PURCHASE MATERIAL: 6061-T60162/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: OR AMS 4025 OR 4027)
OR ASTM B209

0

M6061T6S.XXX X W.WWW

PART NUMBER:

0

WHERE ".XXX" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M6061T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

可用によるいは 2018 MAR 13 0

٥-

APPROVED DESIGN DRAWN CHECKED MFG, APPR APPROVED DE APPR REV REFORMAT DWG, ADD 8209 SPEC (ZN D8-1). ADD PLATE AND T851 SPEC 17.12.13 DS DART AEROSPACE LTD

MIL HAVIKESBURY, ONTARIO, CANADA

NO DRAWING NO.

JIFS M6061T6S SHEET/PLATE SPEC NTS

CP 4/7 6061-T6 SHEET/PLATE SPEC NTS COPYRIGHT 0 2001 BY DART AEROSPACE LTD Ch Par Series 왕 17 12 13 01.06.08 09 07 13 DATE

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PREFERRED SIZE.

XXX BY 4FT BY 8FT FOR SHEET

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					N	Α.	EXTRUSION REPORT
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					(M)	Y	ENGINEERING SIGN OFF
							DOES THIS MATERIAL REQUIRE
		·			N	(1)	CORRECT M# ON THE MATERIAL
		- 1 111111	N	(2)	ORRECT MATERIAL IDENTFICATION		
HILITE 0 5th8960:211							CORRECT REF # TO LINK CERT
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Leave the first that the same							CORRECT THICKNESS
Thy smb : The smit							СОЯВЕСТ МАТЕВІАL РЕВ М-DRAWING
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

:3TAQ

SIGNED OFF BY:

L9/89/8/

:3TAG

ІИЅРЕСТЕВ ВҮ:

CERTIFICAT D'ANALYSE CERTIFICATE OF ANALYSI

Union Drawn Steel II LP

Hamilton, Ontario, Canada L8N 3A2 Phone: (905) 547-4480; Fax: (905) 544-3852 1350 Burlington Street East, P.O. Box 98

561333-00 MILL ORDER NO. 77966 B

NO. DE LA COMMANDE DU CLIENT CUSTOMER ORDER NO.

CHEMICAL & MECHANICAL TEST REPORT REQUIRED

21/17/10

DATE

BON DE CONNVISSEMENT

BILL OF LADING

LOUR ITEM # : V715412

LET0353343

76 7

PRODUIT DESCRIPTION

PRODUCT DESCRIPTION

80IA MT2A

1144)20/22 FT 3/4 RD

TRANSPORT BY TRUCK - PROTECT WITH TARP STANDARD AISI TOLERANCES C .40/.48 MN 1.35/1.65 P .040MAX S .24/.33 COLD DRAWN & STRESS RELIEF ANNEALED "CENTURY" ASTI CLASS B COLD FINISHED STEEL BARS CARBON

AAPLE ANALYSIS DE LA COULLER A COULTER A COULT :ON HOT ROLL SOURCE : ARCELORMITTAL COUNTRY OF ORIGIN - CANADA

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	241 HB			HARDNESS						.I.S.9	том ТЗ5000	TENSILE STRENGTH REBISTANCE A LA TRAC	
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HECORDS OF THE CONTRANT.

WITH SPECIFICATION, AND THAT THE RESULTS ARE CORRECT AS CONTAINED IN .

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HAS BEEN TESTED IN ACCORDA.

INDIQUÉ DANS LES RE

PROCESSING OR WHILE IN OUR POSSESSION. THIS MATERIAL WAS NOT EXPOSED TO MERCURY DURING NO WELDING OR WELD REPAIR PERFORMED ON THIS MATERIAL.

TEST

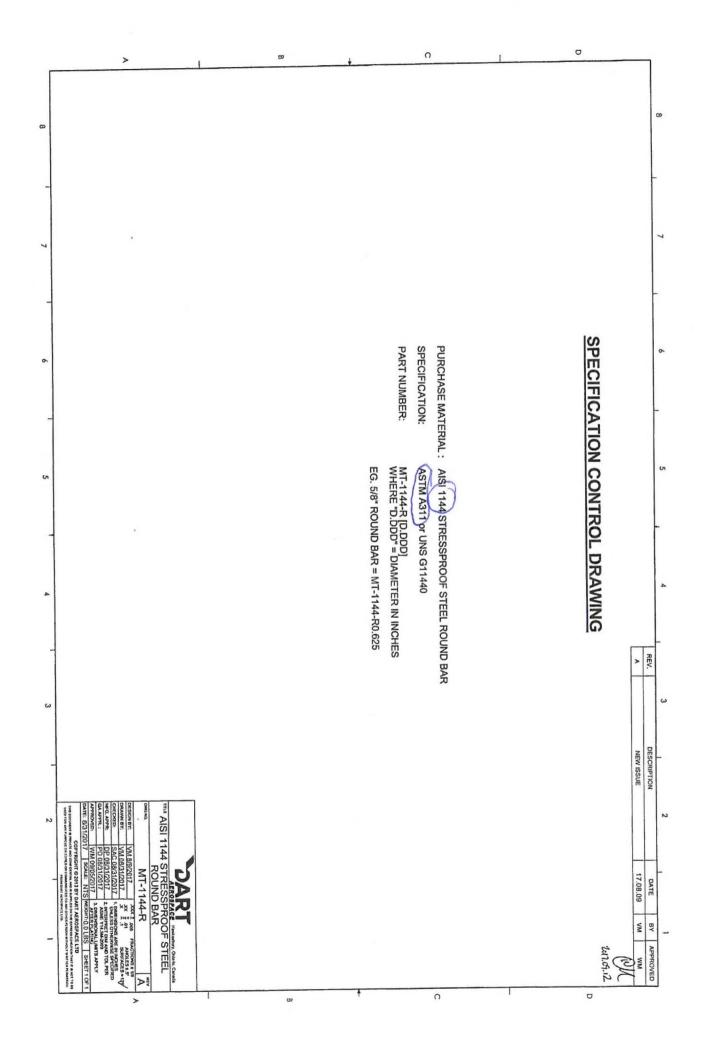
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SOMIC TEST

ARTJU

TEST

DAM



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